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<b>(21) International Application Number:</b> PCT/US97/20313 <b>(22) International Filing Date:</b> 5 November 1997 (05.11.97)  <b>(30) Priority Data:</b> 60/030,455      6 November 1996 (06.11.96)      US  <b>(71) Applicant (for all designated States except US):</b> WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH [US/US]; Nine Cambridge Center, Cambridge, MA 02142 (US).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> LANDER, Eric, S. [US/US]; 151 Bishop Allen Drive, Cambridge, MA 02138 (US). WANG, David [CN/US]; Apartment 314, 276 Mass- achusetts Avenue, Arlington, MA 02173 (US). HUDSON, Thomas [CA/US]; 361 Metcalfe Avenue, Westmount, Quebec H3Z 2J2 (CA).  <b>(74) Agents:</b> GRANAHAN, Patricia et al.; Hamilton, Brook, Smith & Reynolds, Two Militia Drive, Lexington, MA 02173 (US).		<b>(81) Designated States:</b> JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>Without international search report and to be republished          upon receipt of that report.</i>
<b>(54) Title:</b> BIALLELIC MARKERS  <b>(57) Abstract</b>  The invention provides nucleic acid segments of the human genome including polymorphic sites. Allele-specific primers and probes hybridizing to regions flanking these sites are also provided. The nucleic acids, primers and probes are used in applications such as forensics, paternity testing, medicine and genetic analysis.		

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## BIALLELIC MARKERS

## RELATED APPLICATIONS

This application claims priority to U.S. provisional application Serial No. 60/030,455, filed November 6, 1996, the entire teachings of which are incorporated herein by reference.

## BACKGROUND OF THE INVENTION

The genomes of all organisms undergo spontaneous mutation in the course of their continuing evolution, generating variant forms of progenitor sequences (Gusella, *Ann. Rev. Biochem.* 55, 831-854 (1986)). The variant form may confer an evolutionary advantage or disadvantage relative to a progenitor form or may be neutral. In some instances, a variant form confers a lethal disadvantage and is not transmitted to subsequent generations of the organism. In other instances, a variant form confers an evolutionary advantage to the species and is eventually incorporated into the DNA of many or most members of the species and effectively becomes the progenitor form. In many instances, both progenitor and variant form(s) survive and co-exist in a species population. The coexistence of multiple forms of a sequence gives rise to polymorphisms.

Several different types of polymorphism have been reported. A restriction fragment length polymorphism (RFLP) is a variation in DNA sequence that alters the length of a restriction fragment (Botstein et al., *Am. J. Hum. Genet.* 32, 314-331 (1980)). The restriction fragment length polymorphism may create or delete a restriction site, thus changing the length of the restriction fragment.

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RFLPs have been widely used in human and animal genetic analyses (see WO 90/13668; W090/11369; Donis-Keller, *Cell* 51, 319-337 (1987); Lander et al., *Genetics* 121, 85-99 (1989)). When a heritable trait can be linked to a particular RFLP, the presence of the RFLP in an individual can be used to predict the likelihood that the animal will also exhibit the trait.

Other polymorphisms take the form of short tandem repeats (STRs) that include tandem di-, tri- and tetra-nucleotide repeated motifs. These tandem repeats are also referred to as variable number tandem repeat (VNTR) polymorphisms. VNTRs have been used in identity and paternity analysis (US 5,075,217; Armour et al., *FEBS Lett.* 307, 113-115 (1992); Horn et al., W0 91/14003; Jeffreys, EP 370,719), and in a large number of genetic mapping studies.

Other polymorphisms take the form of single nucleotide variations between individuals of the same species. Such polymorphisms are far more frequent than RFLPs, STRs and VNTRs. Some single nucleotide polymorphisms occur in protein-coding sequences, in which case, one of the polymorphic forms may give rise to the expression of a defective or other variant protein and, potentially, a genetic disease. Examples of genes, in which polymorphisms within coding sequences give rise to genetic disease include  $\beta$ -globin (sickle cell anemia) and CFTR (cystic fibrosis). Other single nucleotide polymorphisms occur in noncoding regions. Some of these polymorphisms may also result in defective protein expression (e.g., as a result of defective splicing). Other single nucleotide polymorphisms have no phenotypic effects.

Single nucleotide polymorphisms can be used in the same manner as RFLPs and VNTRs, but offer several advantages. Single nucleotide polymorphisms occur with greater

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frequency and are spaced more uniformly throughout the genome than other forms of polymorphism. The greater frequency and uniformity of single nucleotide polymorphisms means that there is a greater probability that such a

5 polymorphism will be found in close proximity to a genetic locus of interest than would be the case for other polymorphisms. The different forms of characterized single nucleotide polymorphisms are often easier to distinguish than other types of polymorphism (e.g., by use of assays

10 employing allele-specific hybridization probes or primers).

Only a small percentage of the total repository of polymorphisms in humans and other organisms has been identified. The limited number of polymorphisms identified to date is due to the large amount of work required for

15 their detection by conventional methods. For example, a conventional approach to identifying polymorphisms might be to sequence the same stretch of DNA in a population of individuals by dideoxy sequencing. In this type of approach, the amount of work increases in proportion to

20 both the length of sequence and the number of individuals in a population and becomes impractical for large stretches of DNA or large numbers of persons.

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## SUMMARY OF THE INVENTION

The invention provides nucleic acid sequences comprising nucleic acid segments of from about 10 to about 200 bases as shown in the Table, column 7, including a polymorphic site. Complements of these segments are also included. The segments can be DNA or RNA, and can be double- or single-stranded. Segments can be, for example, 10-20, 10-50 or 10-100 bases long. Preferred segments include a biallelic polymorphic site. The base occupying the polymorphic site in the segments can be the reference (Table, column 3) or an alternative base (Table, column 4).

The invention further provides allele-specific oligonucleotides that hybridize to a segment of a fragment shown in the Table, column 7, or its complement. These oligonucleotides can be probes or primers. Also provided are isolated nucleic acids comprising a sequence shown in the Table, column 7, or the complement thereto, in which the polymorphic site within the sequence is occupied by a base other than the reference base shown in the Table, column 3.

The invention further provides a method of analyzing a nucleic acid from an individual. The method determines which base is present at any one of the polymorphic sites shown in the Table. Optionally, a set of bases occupying a set of the polymorphic sites shown in the Table is determined. This type of analysis can be performed on a number of individuals, who are tested for the presence of a disease phenotype. The presence or absence of disease phenotype is then correlated with a base or set of bases present at the polymorphic sites in the individuals tested.

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DETAILED DESCRIPTION OF THE INVENTION  
DEFINITIONS

An oligonucleotide can be DNA or RNA, and single- or double-stranded. Oligonucleotides can be naturally occurring or synthetic, but are typically prepared by synthetic means. The oligonucleotides of the present invention can comprise all of an oligonucleotide sequence presented in column 7 of the Table or a segment of such an oligonucleotide which includes a polymorphic site.

Oligonucleotides can be all of a nucleic acid segment as represented in column 7 of the Table; a nucleic acid sequence which comprises a nucleic acid segment represented in column 7 of the Table and additional nucleic acids (present at either or both ends of a nucleic acid segment of column 7); or a portion (fragment) of a nucleic acid segment represented in column 7 of the Table which includes a polymorphic site. Preferred oligonucleotides of the invention include segments of DNA, or their complements, which include any one of the polymorphic sites shown in the Table. The segments can be between 5 and 250 bases, and, in specific embodiments, are between 5-10, 5-20, 10-20, 10-50, 20-50 or 10-100 bases. The polymorphic site can occur within any position of the segment. The segments can be from any of the allelic forms of DNA shown in the Table.

Hybridization probes are oligonucleotides which bind in a base-specific manner to a complementary strand of nucleic acid. Such probes include peptide nucleic acids, as described in Nielsen *et al.*, *Science* 254, 1497-1500 (1991).

As used herein, the term primer refers to a single-stranded oligonucleotide which acts as a point of initiation of template-directed DNA synthesis under appropriate conditions (e.g., in the presence of four different nucleoside triphosphates and an agent for

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polymerization, such as, DNA or RNA polymerase or reverse transcriptase) in an appropriate buffer and at a suitable temperature. The appropriate length of a primer depends on the intended use of the primer, but typically ranges from 5 15 to 30 nucleotides. Short primer molecules generally require cooler temperatures to form sufficiently stable hybrid complexes with the template. A primer need not reflect the exact sequence of the template, but must be sufficiently complementary to hybridize with a template.

10 The term primer site refers to the area of the target DNA to which a primer hybridizes. The term primer pair refers to a set of primers including a 5' (upstream) primer that hybridizes with the 5' end of the DNA sequence to be amplified and a 3' (downstream) primer that hybridizes with 15 the complement of the 3' end of the sequence to be amplified.

As used herein, linkage describes the tendency of genes, alleles, loci or genetic markers to be inherited together as a result of their location on the same 20 chromosome. It can be measured by percent recombination between the two genes, alleles, loci or genetic markers.

As used herein, polymorphism refers to the occurrence of two or more genetically determined alternative sequences or alleles in a population. A polymorphic marker or site 25 is the locus at which divergence occurs. Preferred markers have at least two alleles, each occurring at frequency of greater than 1%, and more preferably greater than 10% or 20% of a selected population. A polymorphic locus may be as small as one base pair. Polymorphic markers include 30 restriction fragment length polymorphisms, variable number of tandem repeats (VNTR's), hypervariable regions, minisatellites, dinucleotide repeats, trinucleotide repeats, tetranucleotide repeats, simple sequence repeats,

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and insertion elements such as Alu. The first identified allelic form is arbitrarily designated as the reference form and other allelic forms are designated as alternative or variant alleles. The allelic form occurring most frequently in a selected population is sometimes referred to as the wildtype form. Diploid organisms may be homozygous or heterozygous for allelic forms. A diallelic or biallelic polymorphism has two forms. A triallelic polymorphism has three forms.

10 A single nucleotide polymorphism occurs at a polymorphic site occupied by a single nucleotide, which is the site of variation between allelic sequences. The site is usually preceded by and followed by highly conserved sequences of the allele (e.g., sequences that vary in less than 1/100 or 1/1000 members of the populations).

A single nucleotide polymorphism usually arises due to substitution of one nucleotide for another at the polymorphic site. A transition is the replacement of one purine by another purine or one pyrimidine by another pyrimidine. A transversion is the replacement of a purine by a pyrimidine or vice versa. Single nucleotide polymorphisms can also arise from a deletion of a nucleotide or an insertion of a nucleotide relative to a reference allele. Typically the polymorphic site is occupied by a base other than the reference base. For example, where the reference allele contains the base "T" at the polymorphic site, the altered allele can contain a "C", "G" or "A" at the polymorphic site.

Hybridizations are usually performed under stringent conditions, for example, at a salt concentration of no more than 1 M and a temperature of at least 25°C. For example, conditions of 5X SSPE (750 mM NaCl, 50 mM NaPhosphate, 5 mM EDTA, pH 7.4) and a temperature of 25-30°C, or equivalent

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conditions, are suitable for allele-specific probe hybridizations. Equivalent conditions can be determined by varying one or more of the parameters given as an example, as known in the art, while maintaining a similar degree of identity or similarity between the target nucleotide sequence and the primer or probe used.

The term "isolated" is used herein to indicate that the material in question exists in a physical milieu distinct from that in which it occurs in nature. For example, an isolated nucleic acid of the invention may be substantially isolated with respect to the complex cellular milieu in which it naturally occurs. In some instances, the isolated material will form part of a composition (for example, a crude extract containing other substances), buffer system or reagent mix. In other circumstance, the material may be purified to essential homogeneity, for example as determined by PAGE or column chromatography such as HPLC. Preferably, an isolated nucleic acid comprises at least about 50, 80 or 90 percent (on a molar basis) of all macromolecular species present.

#### I. Novel Polymorphisms of the Invention

The novel polymorphisms of the invention are listed in the Table. The first column of the Table lists the names assigned to the fragments in which the polymorphisms occur. The fragments are all human genomic fragments. The sequence of one allelic form of each of the fragments (arbitrarily referred to as the prototypical or reference form) has been previously published. These sequences are listed at <http://www-genome.wi.mit.edu/> (all STS's (sequence tag sites)); <http://shgc.stanford.edu> (Stanford STS's); and <http://ww.tigr.org/> (TIGR STS's). The Web sites also list primers for amplification of the fragments,



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and the genomic location of fragments. Some fragments are expressed sequence tags, and some are random genomic fragments. All information in the websites concerning the fragments listed in the Table is incorporated by reference  
5 in its entirety for all purposes.

The second column lists the position in the fragment in which a polymorphic site has been found. Positions are numbered consecutively with the first base of the fragment sequence as listed in one of the above databases being  
10 assigned the number one. The third column lists the base occupying the polymorphic site in the sequence in the data base. This base is arbitrarily designated the reference or prototypical form, but it is not necessarily the most frequently occurring form. The fourth column in the Table  
15 lists the alternative base(s) at the polymorphic site. The fifth column of the Table lists a 5' (upstream or forward) primer that hybridizes with the 5' end of the DNA sequence to be amplified. The sixth column of the Table lists a 3' (downstream or reverse) primer that hybridizes with the  
20 complement of the 3' end of the sequence to be amplified. The seventh column of the Table lists a number of bases of sequence on either side of the polymorphic site in each fragment. The indicated sequences can be either DNA or RNA. In the latter, the T's shown in the Table are  
25 replaced by U's. The base occupying the polymorphic site is indicated in EUPAC-IUB ambiguity code.

## II. Analysis of Polymorphisms

### A. Preparation of Samples

Polymorphisms are detected in a target nucleic acid  
30 from an individual being analyzed. For assay of genomic DNA, virtually any biological sample (other than pure red blood cells) is suitable. For example, convenient tissue

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samples include whole blood, semen, saliva, tears, urine, fecal material, sweat, buccal, skin and hair. For assay of cDNA or mRNA, the tissue sample must be obtained from an organ in which the target nucleic acid is expressed. For example, if the target nucleic acid is a cytochrome P450, the liver is a suitable source.

Many of the methods described below require amplification of DNA from target samples. This can be accomplished by e.g., PCR. See generally *PCR Technology: Principles and Applications for DNA Amplification* (ed. H.A. Erlich, Freeman Press, NY, NY, 1992); *PCR Protocols: A Guide to Methods and Applications* (eds. Innis, et al., Academic Press, San Diego, CA, 1990); Mattila et al., *Nucleic Acids Res.* 19, 4967 (1991); Eckert et al., *PCR Methods and Applications* 1, 17 (1991); *PCR* (eds. McPherson et al., IRL Press, Oxford); and U.S. Patent 4,683,202.

Other suitable amplification methods include the ligase chain reaction (LCR) (see Wu and Wallace, *Genomics* 4, 560 (1989), Landegren et al., *Science* 241, 1077 (1988), transcription amplification (Kwoh et al., *Proc. Natl. Acad. Sci. USA* 86, 1173 (1989)), and self-sustained sequence replication (Guatelli et al., *Proc. Nat. Acad. Sci. USA*, 87, 1874 (1990)) and nucleic acid based sequence amplification (NASBA). The latter two amplification methods involve isothermal reactions based on isothermal transcription, which produce both single stranded RNA (ssRNA) and double stranded DNA (dsDNA) as the amplification products in a ratio of about 30 or 100 to 1, respectively.

#### B. Detection of Polymorphisms in Target DNA

There are two distinct types of analysis of target DNA for detecting polymorphisms. The first type of analysis,

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sometimes referred to as de novo characterization, is carried out to identify polymorphic sites not previously characterized (i.e., to identify new polymorphisms). This analysis compares target sequences in different individuals to identify points of variation, i.e., polymorphic sites. By analyzing groups of individuals representing the greatest ethnic diversity among humans and greatest breed and species variety in plants and animals, patterns characteristic of the most common alleles/haplotypes of the locus can be identified, and the frequencies of such alleles/haplotypes in the population can be determined. Additional allelic frequencies can be determined for subpopulations characterized by criteria such as geography, race, or gender. The de novo identification of polymorphisms of the invention is described in the Examples section. The second type of analysis determines which form(s) of a characterized (known) polymorphism are present in individuals under test. There are a variety of suitable procedures, which are discussed in turn.

#### 1. Allele-Specific Probes

The design and use of allele-specific probes for analyzing polymorphisms is described by e.g., Saiki et al., *Nature* 324, 163-166 (1986); Dattagupta, EP 235,726, Saiki, WO 89/11548. Allele-specific probes can be designed that hybridize to a segment of target DNA from one individual but do not hybridize to the corresponding segment from another individual due to the presence of different polymorphic forms in the respective segments from the two individuals. Hybridization conditions should be sufficiently stringent that there is a significant difference in hybridization intensity between alleles, and preferably an essentially binary response, whereby a probe

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hybridizes to only one of the alleles. Some probes are designed to hybridize to a segment of target DNA such that the polymorphic site aligns with a central position (e.g., in a 15-mer at the 7 position; in a 16-mer, at either the 8 or 9 position) of the probe. This design of probe achieves good discrimination in hybridization between different allelic forms.

Allele-specific probes are often used in pairs, one member of a pair showing a perfect match to a reference form of a target sequence and the other member showing a perfect match to a variant form. Several pairs of probes can then be immobilized on the same support for simultaneous analysis of multiple polymorphisms within the same target sequence.

## 2. Tiling Arrays

The polymorphisms can also be identified by hybridization to nucleic acid arrays, some examples of which are described in WO 95/11995. One form of such arrays is described in the Examples section in connection with de novo identification of polymorphisms. The same array or a different array can be used for analysis of characterized polymorphisms. WO 95/11995 also describes subarrays that are optimized for detection of a variant form of a precharacterized polymorphism. Such a subarray contains probes designed to be complementary to a second reference sequence, which is an allelic variant of the first reference sequence. The second group of probes is designed by the same principles as described in the Examples, except that the probes exhibit complementarity to the second reference sequence. The inclusion of a second group (or further groups) can be particularly useful for analyzing short subsequences of the primary reference

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sequence in which multiple mutations are expected to occur within a short distance commensurate with the length of the probes (e.g., two or more mutations within 9 to 21 bases).

### 3. Allele-Specific Primers

5       An allele-specific primer hybridizes to a site on target DNA overlapping a polymorphism and only primes amplification of an allelic form to which the primer exhibits perfect complementarity. See Gibbs, *Nucleic Acid Res.* 17, 2427-2448 (1989). This primer is used in  
10       conjunction with a second primer which hybridizes at a distal site. Amplification proceeds from the two-primers, resulting in a detectable product which indicates the particular allelic form is present. A control is usually performed with a second pair of primers, one of which shows  
15       a single base mismatch at the polymorphic site and the other of which exhibits perfect complementarity to a distal site. The single-base mismatch prevents amplification and no detectable product is formed. The method works best when the mismatch is included in the 3'-most position of  
20       the oligonucleotide aligned with the polymorphism because this position is most destabilizing to elongation from the primer (see, e.g., WO 93/22456).

### 4. Direct-Sequencing

25       The direct analysis of the sequence of polymorphisms of the present invention can be accomplished using either the dideoxy chain termination method or the Maxam Gilbert method (see Sambrook *et al.*, *Molecular Cloning, A Laboratory Manual* (2nd Ed., CSHP, New York 1989); Zyskind *et al.*, *Recombinant DNA Laboratory Manual*, (Acad. Press,  
30       1988)).

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## 5. Denaturing Gradient Gel Electrophoresis

Amplification products generated using the polymerase chain reaction can be analyzed by the use of denaturing gradient gel electrophoresis. Different alleles can be identified based on the different sequence-dependent melting properties and electrophoretic migration of DNA in solution. Erlich, ed., *PCR Technology, Principles and Applications for DNA Amplification*, (W.H. Freeman and Co, New York, 1992), Chapter 7.

## 6. Single-Strand Conformation Polymorphism Analysis

Alleles of target sequences can be differentiated using single-strand conformation polymorphism analysis, which identifies base differences by alteration in electrophoretic migration of single stranded PCR products, as described in Orita et al., *Proc. Nat. Acad. Sci.* 86, 2766-2770 (1989). Amplified PCR products can be generated as described above, and heated or otherwise denatured, to form single stranded amplification products. Single-stranded nucleic acids may refold or form secondary structures which are partially dependent on the base sequence. The different electrophoretic mobilities of single-stranded amplification products can be related to base-sequence differences between alleles of target sequences.

## 25 III. Methods of Use

After determining polymorphic form(s) present in an individual at one or more polymorphic sites, this information can be used in a number of methods.

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## A. Forensics

Determination of which polymorphic forms occupy a set of polymorphic sites in an individual identifies a set of polymorphic forms that distinguishes the individual. See  
5 generally National Research Council, *The Evaluation of Forensic DNA Evidence* (Eds. Pollard et al., National Academy Press, DC, 1996). The more sites that are analyzed, the lower the probability that the set of polymorphic forms in one individual is the same as that in  
10 an unrelated individual. Preferably, if multiple sites are analyzed, the sites are unlinked. Thus, polymorphisms of the invention are often used in conjunction with - polymorphisms in distal genes. Preferred polymorphisms for use in forensics are biallelic because the population  
15 frequencies of two polymorphic forms can usually be determined with greater accuracy than those of multiple polymorphic forms at multi-allelic loci.

The capacity to identify a distinguishing or unique set of forensic markers in an individual is useful for forensic  
20 analysis. For example, one can determine whether a blood sample from a suspect matches a blood or other tissue sample from a crime scene by determining whether the set of polymorphic forms occupying selected polymorphic sites is the same in the suspect and the sample. If the set of  
25 polymorphic markers does not match between a suspect and a sample, it can be concluded (barring experimental error) that the suspect was not the source of the sample. If the set of markers does match, one can conclude that the DNA from the suspect is consistent with that found at the crime  
30 scene. If frequencies of the polymorphic forms at the loci tested have been determined (e.g., by analysis of a suitable population of individuals), one can perform a statistical analysis to determine the probability that a

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match of suspect and crime scene sample would occur by chance.

$p(ID)$  is the probability that two random individuals have the same polymorphic or allelic form at a given polymorphic site. In biallelic loci, four genotypes are possible: AA, AB, BA, and BB. If alleles A and B occur in a haploid genome of the organism with frequencies  $x$  and  $y$ , the probability of each genotype in a diploid organism is (see WO 95/12607):

- 10 Homozygote:  $p(AA) = x^2$   
 Homozygote:  $p(BB) = y^2 = (1-x)^2$   
 Single Heterozygote:  $p(AB) = p(BA) = xy = x(1-x)$   
 Both Heterozygotes:  $p(AB+BA) = 2xy = 2x(1-x)$

The probability of identity at one locus (i.e., the probability that two individuals, picked at random from a population will have identical polymorphic forms at a given locus) is given by the equation:

15  $p(ID) = (x^2)^2 + (2xy)^2 + (y^2)^2$ .

These calculations can be extended for any number of polymorphic forms at a given locus. For example, the probability of identity  $p(ID)$  for a 3-allele system where the alleles have the frequencies in the population of  $x$ ,  $y$  and  $z$ , respectively, is equal to the sum of the squares of the genotype frequencies:

25  $p(ID) = x^4 + (2xy)^2 + (2yz)^2 + (2xz)^2 + z^4 + y^4$

In a locus of  $n$  alleles, the appropriate binomial expansion is used to calculate  $p(ID)$  and  $p(exc)$ .

The cumulative probability of identity ( $\text{cum } p(ID)$ ) for each of multiple unlinked loci is determined by multiplying the probabilities provided by each locus.

30  $\text{cum } p(ID) = p(ID1)p(ID2)p(ID3) \dots p(IDn)$



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The cumulative probability of non-identity for  $n$  loci (i.e. the probability that two random individuals will be different at 1 or more loci) is given by the equation:

$$\text{cum } p(\text{nonID}) = 1 - \text{cum } p(\text{ID}).$$

- 5        If several polymorphic loci are tested, the cumulative probability of non-identity for random individuals becomes very high (e.g., one billion to one). Such probabilities can be taken into account together with other evidence in determining the guilt or innocence of the suspect.

10        B. Paternity Testing

The object of paternity testing is usually to determine whether a male is the father of a child. In most cases, the mother of the child is known and thus, the mother's contribution to the child's genotype can be traced.

- 15        Paternity testing investigates whether the part of the child's genotype not attributable to the mother is consistent with that of the putative father. Paternity testing can be performed by analyzing sets of polymorphisms in the putative father and the child.

- 20        If the set of polymorphisms in the child attributable to the father does not match the set of polymorphisms of the putative father, it can be concluded, barring experimental error, that the putative father is not the real father. If the set of polymorphisms in the child  
25        attributable to the father does match the set of polymorphisms of the putative father, a statistical calculation can be performed to determine the probability of coincidental match.

- 30        The probability of parentage exclusion (representing the probability that a random male will have a polymorphic form at a given polymorphic site that makes him

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incompatible as the father) is given by the equation (see WO 95/12607):

$$p(\text{exc}) = xy(1-xy)$$

where x and y are the population frequencies of alleles A and B of a biallelic polymorphic site.

(At a triallelic site  $p(\text{exc}) = xy(1-xy) + yz(1-yz) + xz(1-xz) + 3xyz(1-xyz)$ ), where x, y and z are the respective population frequencies of alleles A, B and C).

The probability of non-exclusion is

$$p(\text{non-exc}) = 1 - p(\text{exc})$$

The cumulative probability of non-exclusion (representing the value obtained when n loci are used) is thus:

$$\text{cum } p(\text{non-exc}) = p(\text{non-exc1})p(\text{non-exc2})p(\text{non-exc3}) \dots$$

$$p(\text{non-excn})$$

The cumulative probability of exclusion for n loci (representing the probability that a random male will be excluded)

$$\text{cum } p(\text{exc}) = 1 - \text{cum } p(\text{non-exc}).$$

If several polymorphic loci are included in the analysis, the cumulative probability of exclusion of a random male is very high. This probability can be taken into account in assessing the liability of a putative father whose polymorphic marker set matches the child's polymorphic marker set attributable to his/her father.

### C. Correlation of Polymorphisms with Phenotypic Traits

The polymorphisms of the invention may contribute to the phenotype of an organism in different ways. Some polymorphisms occur within a protein coding sequence and contribute to phenotype by affecting protein structure. The effect may be neutral, beneficial or detrimental, or both beneficial and detrimental, depending on the

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circumstances. For example, a heterozygous sickle cell mutation confers resistance to malaria, but a homozygous sickle cell mutation is usually lethal. Other polymorphisms occur in noncoding regions but may exert phenotypic effects indirectly via influence on replication, transcription, and translation. A single polymorphism may affect more than one phenotypic trait. Likewise, a single phenotypic trait may be affected by polymorphisms in different genes. Further, some polymorphisms predispose an individual to a distinct mutation that is causally related to a certain phenotype.

Phenotypic traits include diseases that have known but hitherto unmapped genetic components (e.g., agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary hemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, and acute intermittent porphyria). Phenotypic traits also include symptoms of, or susceptibility to, multifactorial diseases of which a component is or may be genetic, such as autoimmune diseases, inflammation, cancer, diseases of the nervous system, and infection by pathogenic microorganisms. Some examples of autoimmune diseases include rheumatoid arthritis, multiple sclerosis, diabetes (insulin-dependent and non-independent), systemic lupus erythematosus and Graves disease. Some examples of cancers include cancers of the bladder, brain, breast, colon, esophagus, kidney, leukemia, liver, lung, oral cavity, ovary, pancreas, prostate, skin, stomach and uterus. Phenotypic traits also include characteristics such as longevity, appearance

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(e.g., baldness, obesity), strength, speed, endurance, fertility, and susceptibility or receptivity to particular drugs or therapeutic treatments.

Correlation is performed for a population of  
5 individuals who have been tested for the presence or  
absence of a phenotypic trait of interest and for  
polymorphic markers sets. To perform such analysis, the  
presence or absence of a set of polymorphisms (i.e. a  
polymorphic set) is determined for a set of the  
10 individuals, some of whom exhibit a particular trait, and  
some of which exhibit lack of the trait. The alleles of  
each polymorphism of the set are then reviewed to determine  
whether the presence or absence of a particular allele is  
associated with the trait of interest. Correlation can be  
15 performed by standard statistical methods such as a  $\chi^2$ -  
squared test and statistically significant correlations  
between polymorphic form(s) and phenotypic characteristics  
are noted. For example, it might be found that the  
presence of allele A1 at polymorphism A correlates with  
20 heart disease. As a further example, it might be found  
that the combined presence of allele A1 at polymorphism A  
and allele B1 at polymorphism B correlates with increased  
milk production of a farm animal.

Such correlations can be exploited in several ways. In  
25 the case of a strong correlation between a set of one or  
more polymorphic forms and a disease for which treatment is  
available, detection of the polymorphic form set in a human  
or animal patient may justify immediate administration of  
treatment, or at least the institution of regular  
30 monitoring of the patient. Detection of a polymorphic form  
correlated with serious disease in a couple contemplating a  
family may also be valuable to the couple in their  
reproductive decisions. For example, the female partner

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might elect to undergo in vitro fertilization to avoid the possibility of transmitting such a polymorphism from her husband to her offspring. In the case of a weaker, but still statistically significant correlation between a polymorphic set and human disease, immediate therapeutic intervention or monitoring may not be justified.

Nevertheless, the patient can be motivated to begin simple life-style changes (e.g., diet, exercise) that can be accomplished at little cost to the patient but confer potential benefits in reducing the risk of conditions to which the patient may have increased susceptibility by virtue of variant alleles. Identification of a polymorphic set in a patient correlated with enhanced receptiveness to one of several treatment regimes for a disease indicates that this treatment regime should be followed.

For animals and plants, correlations between characteristics and phenotype are useful for breeding for desired characteristics. For example, Beitz et al., US 5,292,639 discuss use of bovine mitochondrial polymorphisms in a breeding program to improve milk production in cows. To evaluate the effect of mtDNA D-loop sequence polymorphism on milk production, each cow was assigned a value of 1 if variant or 0 if wildtype with respect to a prototypical mitochondrial DNA sequence at each of 17 locations considered. Each production trait was analyzed individually with the following animal model:

$$Y_{ij\text{kp}n} = \mu + YS_i + P_j + X_k + \beta_1 + \dots \beta_{17} + PE_n + a_n + e_p$$

where  $Y_{ij\text{kp}n}$  is the milk, fat, fat percentage, SNF, SNF percentage, energy concentration, or lactation energy record;  $\mu$  is an overall mean;  $YS_i$  is the effect common to all cows calving in year-season;  $X_k$  is the effect common to cows in either the high or average selection line;  $\beta_1$  to  $\beta_{17}$  are the binomial regressions of production record on mtDNA

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D-loop sequence polymorphisms;  $PE_n$  is permanent environmental effect common to all records of cow  $n$ ;  $a_n$  is effect of animal  $n$  and is composed of the additive genetic contribution of sire and dam breeding values and a  
5 Mendelian sampling effect; and  $e_p$  is a random residual. It was found that eleven of seventeen polymorphisms tested influenced at least one production trait. Bovines having the best polymorphic forms for milk production at these eleven loci are used as parents for breeding the next  
10 generation of the herd.

#### D. Genetic Mapping of Phenotypic Traits

The previous section concerns identifying correlations between phenotypic traits and polymorphisms that directly or indirectly contribute to those traits. The present  
15 section describes identification of a physical linkage between a genetic locus associated with a trait of interest and polymorphic markers that are not associated with the trait, but are in physical proximity with the genetic locus responsible for the trait and co-segregate with it. Such  
20 analysis is useful for mapping a genetic locus associated with a phenotypic trait to a chromosomal position, and thereby cloning gene(s) responsible for the trait. See Lander et al., *Proc. Natl. Acad. Sci. (USA)* 83, 7353-7357 (1986); Lander et al., *Proc. Natl. Acad. Sci. (USA)* 84,  
25 2363-2367 (1987); Donis-Keller et al., *Cell* 51, 319-337 (1987); Lander et al., *Genetics* 121, 185-199 (1989)). Genes localized by linkage can be cloned by a process known as directional cloning. See Wainwright, *Med. J. Australia* 159, 170-174 (1993); Collins, *Nature Genetics* 1, 3-6  
30 (1992).

Linkage studies are typically performed on members of a family. Available members of the family are characterized

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for the presence or absence of a phenotypic trait and for a set of polymorphic markers. The distribution of polymorphic markers in an informative meiosis is then analyzed to determine which polymorphic markers co-

5 segregate with a phenotypic trait. See, e.g., Kerem et al., *Science* 245, 1073-1080 (1989); Monaco et al., *Nature* 316, 842 (1985); Yamoka et al., *Neurology* 40, 222-226 (1990); Rossiter et al., *FASEB Journal* 5, 21-27 (1991).

Linkage is analyzed by calculation of LOD (log of the

10 odds) values. A lod value is the relative likelihood of obtaining observed segregation data for a marker and a genetic locus when the two are located at a recombination fraction  $\theta$ , versus the situation in which the two are not linked, and thus segregating independently (Thompson &

15 Thompson, *Genetics in Medicine* (5th ed, W.B. Saunders Company, Philadelphia, 1991); Strachan, "Mapping the human genome" in *The Human Genome* (BIOS Scientific Publishers Ltd, Oxford), Chapter 4). A series of likelihood ratios are calculated at various recombination fractions ( $\theta$ ),

20 ranging from  $\theta = 0.0$  (coincident loci) to  $\theta = 0.50$  (unlinked). Thus, the likelihood at a given value of  $\theta$  is: probability of data if loci linked at  $\theta$  to probability of data if loci unlinked. The computed likelihoods are usually expressed as the  $\log_{10}$  of this ratio (i.e., a lod

25 score). For example, a lod score of 3 indicates 1000:1 odds against an apparent observed linkage being a coincidence. The use of logarithms allows data collected from different families to be combined by simple addition. Computer programs are available for the calculation of lod

30 scores for differing values of  $\theta$  (e.g., LIPED, MLINK (Lathrop, *Proc. Nat. Acad. Sci. (USA)* 81, 3443-3446 (1984)). For any particular lod score, a recombination fraction may be determined from mathematical tables. See

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Smith *et al.*, *Mathematical tables for research workers in human genetics* (Churchill, London, 1961); Smith, *Ann. Hum. Genet.* 32, 127-150 (1968). The value of  $\theta$  at which the lod score is the highest is considered to be the best estimate  
5 of the recombination fraction.

Positive lod score values suggest that the two loci are linked, whereas negative values suggest that linkage is less likely (at that value of  $\theta$ ) than the possibility that the two loci are unlinked. By convention, a combined lod  
10 score of +3 or greater (equivalent to greater than 1000:1 odds in favor of linkage) is considered definitive evidence that two loci are linked. Similarly, by convention, a negative lod score of -2 or less is taken as definitive evidence against linkage of the two loci being compared.  
15 Negative linkage data are useful in excluding a chromosome or a segment thereof from consideration. The search focuses on the remaining non-excluded chromosomal locations.

#### IV. Modified Polypeptides and Gene Sequences

20 The invention further provides variant forms of nucleic acids and corresponding proteins. The nucleic acids comprise one of the sequences described in the Table, column 8, in which the polymorphic position is occupied by one of the alternative bases for that position. Some  
25 nucleic acids encode full-length variant forms of proteins. Similarly, variant proteins have the prototypical amino acid sequences encoded by nucleic acid sequences shown in the Table, column 8, (read so as to be in-frame with the full-length coding sequence of which it is a component)  
30 except at an amino acid encoded by a codon including one of the polymorphic positions shown in the Table. That position is occupied by the amino acid coded by the



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corresponding codon in any of the alternative forms shown in the Table.

Variant genes can be expressed in an expression vector in which a variant gene is operably linked to a native or other promoter. Usually, the promoter is a eukaryotic promoter for expression in a mammalian cell. The transcription regulation sequences typically include a heterologous promoter and optionally an enhancer which is recognized by the host. The selection of an appropriate promoter, for example trp, lac, phage promoters, glycolytic enzyme promoters and tRNA promoters, depends on the host selected. Commercially available expression vectors can be used. Vectors can include host-recognized replication systems, amplifiable genes, selectable markers, host sequences useful for insertion into the host genome, and the like.

The means of introducing the expression construct into a host cell varies depending upon the particular construction and the target host. Suitable means include fusion, conjugation, transfection, transduction, electroporation or injection, as described in Sambrook, *supra*. A wide variety of host cells can be employed for expression of the variant gene, both prokaryotic and eukaryotic. Suitable host cells include bacteria such as *E. coli*, yeast, filamentous fungi, insect cells, mammalian cells, typically immortalized, e.g., mouse, CHO, human and monkey cell lines and derivatives thereof. Preferred host cells are able to process the variant gene product to produce an appropriate mature polypeptide. Processing includes glycosylation, ubiquitination, disulfide bond formation, general post-translational modification, and the like.

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The protein may be isolated by conventional means of protein biochemistry and purification to obtain a substantially pure product, i.e., 80, 95 or 99% free of cell component contaminants, as described in Jacoby,

5 *Methods in Enzymology* Volume 104, Academic Press, New York (1984); Scopes, *Protein Purification, Principles and Practice*, 2nd Edition, Springer-Verlag, New York (1987); and Deutscher (ed), *Guide to Protein Purification, Methods in Enzymology*, Vol. 182 (1990). If the protein is  
10 secreted, it can be isolated from the supernatant in which the host cell is grown. If not secreted, the protein can be isolated from a lysate of the host cells.

The invention further provides transgenic nonhuman animals capable of expressing an exogenous variant gene  
15 and/or having one or both alleles of an endogenous variant gene inactivated. Expression of an exogenous variant gene is usually achieved by operably linking the gene to a promoter and optionally an enhancer, and microinjecting the construct into a zygote. See Hogan et al., "Manipulating  
20 the Mouse Embryo, A Laboratory Manual," Cold Spring Harbor Laboratory. Inactivation of endogenous variant genes can be achieved by forming a transgene in which a cloned variant gene is inactivated by insertion of a positive selection marker. See Capecchi, *Science* 244, 1288-1292  
25 (1989). The transgene is then introduced into an embryonic stem cell, where it undergoes homologous recombination with an endogenous variant gene. Mice and other rodents are preferred animals. Such animals provide useful drug screening systems.

30 In addition to substantially full-length polypeptides expressed by variant genes, the present invention includes biologically active fragments of the polypeptides, or analogs thereof, including organic molecules which simulate

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the interactions of the peptides. Biologically active fragments include any portion of the full-length polypeptide which confers a biological function on the variant gene product, including ligand binding, and  
5 antibody binding. Ligand binding includes binding by nucleic acids, proteins or polypeptides, small biologically active molecules, or large cellular structures.

Polyclonal and/or monoclonal antibodies that specifically bind to variant gene products but not to  
10 corresponding prototypical gene products are also provided. Antibodies can be made by injecting mice or other animals with the variant gene product or synthetic peptide-fragments thereof. Monoclonal antibodies are screened as are described, for example, in Harlow & Lane, *Antibodies, A*  
15 *Laboratory Manual*, Cold Spring Harbor Press, New York (1988); Goding, *Monoclonal antibodies, Principles and Practice* (2d ed.) Academic Press, New York (1986). Monoclonal antibodies are tested for specific immunoreactivity with a variant gene product and lack of  
20 immunoreactivity to the corresponding prototypical gene product. These antibodies are useful in diagnostic assays for detection of the variant form, or as an active ingredient in a pharmaceutical composition.

#### V. Kits

25 The invention further provides kits comprising at least one allele-specific oligonucleotide as described above. Often, the kits contain one or more pairs of allele-specific oligonucleotides hybridizing to different forms of a polymorphism. In some kits, the allele-specific  
30 oligonucleotides are provided immobilized to a substrate. For example, the same substrate can comprise allele-specific oligonucleotide probes for detecting at least 10,

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100 or all of the polymorphisms shown in the Table. Optional additional components of the kit include, for example, restriction enzymes, reverse-transcriptase or polymerase, the substrate nucleoside triphosphates, means  
5 used to label (for example, an avidin-enzyme conjugate and enzyme substrate and chromogen if the label is biotin), and the appropriate buffers for reverse transcription, PCR, or hybridization reactions. Usually, the kit also contains instructions for carrying out the methods.

10 The following Examples are offered for the purpose of illustrating the present invention and are not to be construed to limit the scope of this invention. The teachings of all references cited herein are hereby incorporated herein by reference.

#### 15 EXAMPLES

The polymorphisms shown in the Table were identified by resequencing of target sequences from three to ten unrelated individuals of diverse ethnic and geographic backgrounds by hybridization to probes immobilized to  
20 microfabricated arrays or conventional sequencing. The strategy and principles for design and use of such arrays are generally described in WO 95/11995. The strategy provides arrays of probes for analysis of target sequences showing a high degree of sequence identity to the reference  
25 sequences of the fragments shown in the Table, column 1. The reference sequences were sequence-tagged sites (STSs) developed in the course of the Human Genome Project (see, e.g., *Science* 270, 1945-1954 (1995); *Nature* 380, 152-154 (1996)). Most STS's ranged from 100 bp to 300 bp in size.

30 A typical probe array used in this analysis has two groups of four sets of probes that respectively tile both strands of a reference sequence. A first probe set

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comprises a plurality of probes exhibiting perfect complementarily with one of the reference sequences. Each probe in the first probe set has an interrogation position that corresponds to a nucleotide in the reference sequence.

5 That is, the interrogation position is aligned with the corresponding nucleotide in the reference sequence, when the probe and reference sequence are aligned to maximize complementarily between the two. For each probe in the first set, there are three corresponding probes from three

10 additional probe sets. Thus, there are four probes corresponding to each nucleotide in the reference sequence. The probes from the three additional probe sets are identical to the corresponding probe from the first probe set except at the interrogation position, which occurs in

15 the same position in each of the four corresponding probes from the four probe sets, and is occupied by a different nucleotide in the four probe sets. In the present analysis, probes were 25 nucleotides long. Arrays tiled for multiple different references sequences were included

20 on the same substrate.

Multiple target sequences from an individual were amplified from human genomic DNA using primers for the fragments indicated in the listed Web sites. The amplified target sequences were fluorescently labelled during or

25 after PCR. The labelled target sequences were hybridized with a substrate bearing immobilized arrays of probes. The amount of label bound to probes was measured. Analysis of the pattern of label revealed the nature and position of differences between the target and reference sequence. For

30 example, comparison of the intensities of four corresponding probes reveals the identity of a corresponding nucleotide in the target sequences aligned with the interrogation position of the probes. The

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corresponding nucleotide is the complement of the nucleotide occupying the interrogation position of the probe showing the highest intensity (see WO 95/11995). The existence of a polymorphism is also manifested by

5 differences in normalized hybridization intensities of probes flanking the polymorphism when the probes hybridized to corresponding targets from different individuals. For example, relative loss of hybridization intensity in a "footprint" of probes flanking a polymorphism signals a

10 difference between the target and reference (i.e., a polymorphism) (see EP 717,113). Additionally, hybridization intensities for corresponding targets from different individuals can be classified into groups or clusters suggested by the data, not defined *a priori*, such

15 that isolates in a give cluster tend to be similar and isolates in different clusters tend to be dissimilar. Hybridizations to samples from different individuals were performed separately. The Table summarizes the data obtained for target sequences in comparison with a

20 reference sequence for the individuals tested.

From the foregoing, it is apparent that the invention includes a number of general uses that can be expressed concisely as follows. The invention provides for the use of any of the nucleic acid segments described above in the

25 diagnosis or monitoring of diseases, such as cancer, inflammation, heart disease, diseases of the CNS, and susceptibility to infection by microorganisms. The invention further provides for the use of any of the nucleic acid segments in the manufacture of a medicament

30 for the treatment or prophylaxis of such diseases. The invention further provides for the use of any of the DNA segments as a pharmaceutical.

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All publications and patent applications cited above are incorporated by reference in their entirety for all purposes to the same extent as if each individual publication or patent application were specifically and  
5 individually indicated to be so incorporated by reference.

1	2	3	4	5	6	7
						TGTGAACTCCACTTGAAAGCCAAAGAAAGAACTCAGACTTAAACACATGCCAGTTGGGAAGGCTCT
						GAAAACTCAGTGCATATAAGAACACTTGAGACTAATGAAGAGAGAGAGTTGAGACCAATCTTTATTT
						GTAAGGCAAACTACTGAATAAACAGTTGAAGGAAAGACATTTGAAAAAGCTTTTGAGGATAATGT
WI-7070	226	C T	---			TACTAGACTTTATGCCATGGTCTTTTC/TAGTTTAAATGCTGTCTCTGTCTGTCAG
						AAGCCATTGACGTAACATCTCAGAGGTTATTTGCATGGATTGACTCCTGGGACAAAAGGAC/GC/JAA
						AAACACTCTTCTGTGGATATCTGTGCAGATAGATGACCCAAAGATCAGATGCTACCCAGATGTGTTTT
						GATAATACATAAGCCCTAGGATTTAGATACAATCTTGAAAGAAACTGAGACAGATAATTCTGAATT
WI-10744	61	G C	---			AAATGAGGTAAAGTTTCAGGCACTCA
						GGGCAAAATTACCAGCAAAAAGTCAAAATTACCAGCATCAAAGTCAGGTGCAAAAGGAGGTAGAACAA
						TTACAGTAACATATGTCAATCTTTTGTATATTAGTATTATCTGCCAAATGCCTAGAATA/C/TJAGTG
WI-9975	126	C T	---			GGTCCCTAATAGTATTAGTTCCTTTTCTCCCTTTCTCATTCTCTGAATTTATTTTATACTTAA
						GGGATTAGTTACCACCAAAATGTGTAATGATCAATTTGATCTTACTGAA
						GCTAGGTTTGTTCGTGGTGTCTCACTAGACTTGAGATGACTTGATTTACAGTAATCCCTATGT
						GATGTAACATAGCTAGACCTTCCCTCTCCGCAATCCAGCTCCAGGTTTCAGAAAAGTATGCCACAC
						TCAACCCCTCTCTCCAGTTCACTCTGATTAATTTCTCCCATATTAATTCAAAGGAGTGGACAGGT
WI-8010	247	G T	---			CCCTGGCTGAAAAGAAATAAGAGATCCCAAGTGGTGGGG/G/TJCTT
						GCCCGGCCTATCTTTTAAATTTAACTTGTATCTTTGGTGTCTCCATCTCCTAGGATTCGCCTTATAAT
						CTTTGTCTGTCTGTGTA/GC/JATTACCTGATTCTACTTTTGATACAAAGGCTGATGGCTCACAATGT
						AGTAGTGCCAACTCTCAGGCTCTTTGAATTTTCTCTGCTATTGAGGACATTTCCACTTTCTACTTA
WI-5222b	85	G C	---			TCTCGACTCTATAACAACCTCCAACAGAA
						GCCCGGCCTATCTTTTAAATTTAACTTGTATCTTTGGTGTCTCCATCTCCTA/GC/JGATTCGCCTTAT
						AATCTTTGTCTGTCTGTAGATTACCTGATTCTACTTTTGATACAAAGGCTGATGGCTCACAATGT
						AGTAGTGCCAACTCTCAGGCTCTTTGAATTTTCTCTGCTATTGAGGACATTTCCACTTTCTACTTA
WI-5222	52	G C	---			TCTCGACTCTATAACAACCTCCAACAGAA
						TATGCACCTCCACAAAAGCGATATAATTTAAAGTTTTTTTCAATTAGAAATAAATGTATAAAAAATAA
						ATATGTTATTATAGGCATTTATTACTAATAGTCTCTCTTGGAAGGAACACCCCAACCAATACTT
						ATAAAGTACATGTAATTTATAGTAACATATTTACTATATACATATGAAAAAATCATATTCTCACA
WI-8007	242	C A	---			GAAGAGCTGAACAGACATTCACCAGGATACGACTGTGGAC/C/JAAGCTGCTG
						TCAGTTGCAAAAATGCTGCCATAAACATGCTTTGCTTATCTCTGTGCATATGATGTGTTTTGTTAG
						TCTATATTACACATATGAGTGAAATTTCTGTTGGGCATGGGAAATACATCTTTATGAGACATTGA
						ACTGCTCACCACACTATCATAGTATCCATTTAAACAGACCAACAATGTATAAGAAATCCCTTTGTTTAC
WI-9823	97	C T	---			ATGCTTTCCAATCTGATTTGTATGACTATTGTATGCACAGTTGGATCACC



WI-9651b	105 A T ---	---	---	TCCTACATTCTATGGACAACCTCCATGCCCTTGCACATGCTGATCCCTCCTCCTGGAATCCCTTCCT ACTTGCTCATGTACAAATTTCTGCTCGTCCCTTCA/ΠGGGCAGCTTGAAGCCCTCCCTTTAGAC ACCTCTACAGGTACAGCCGACCATGCCCTACCTCCATGGCACTGCCAGGGACCCCTTATAGGCCTCTG TCCTTAAACCTGTAATGGTATATTAAATCCTTGGTGTTGAATGTCCTC
WI-9651	139 T C ---	---	---	TCCTACATTCTATGGACAACCTCCATGCCCTTGCACATGCTGATCCCTCCTCCTGGAATCCCTTCCT ACTTGCTCATGTACAAATTTCTGCTCGTCCCTTCAAGGGCAGCTTGAAGCCCTCCCTTTAGACACCT CT/CACAGGTACAGCCGACCATGCCCTACCTCCATGGCACTGCCAGGGACCCCTTATAGGCCTCTGT CTTAAACCTGTAATGGTATATTAAATCCCTTGGTGTTGAATGTCCTC
WI-7676b	309 A C ---	---	---	GTGACCTTCCTGCAGCGTGGAGATGGACATCCTTGCTGCTGGGACTTGGCCCTGCTATTTATTTTG TATTTATGCTTAAATCTCTCCACTGATGCATCCTCCAAGGGTAGATGGGAGGGTCTGTGTGAAGGG GCCGGCTCTCTTGGTGCTGCTGGGTTGCAGGGGCGCAAGCGTGTGACTGCAGCTTCTGCTGGTGC TCCCCCGTCTCCTGGAGGCGAGTATAGGAGAGAGAGCAAGGATTGAGT
WI-7676	139 C T ---	---	---	GTGACCTTCCTGCAGCGTGGAGATGGACATCCTTGCTGCTGGGACTTGGCCCTGCTATTTATTTTG TATTTATGCTTAAATCTCTCCACTGATGCATCCTCCAAGGGTAGATGGGAGGGTCTGTGTGAAGGG GC/C/ΠGGCTCTCTTGGTGCTGCTGGGTTGCAGGGGCGCAAGCGTGTGACTGCAGCTTCTGCTG GTGCTCCCCCGTCTCCTGGAGGCGAGTATAGGAGAGAGCAAGGATT
WI-10072	105 G A ---	---	---	CATTATCTTGCTGGTCTGGTCTTCAATTCACCTTCTCCTCCTCCAATGAAGAGGATATTTAAGCATCAT CATCTGGCCCTTTTGGAGTTTGAATATTTTGTG/ΠGACTCCTATGCACATGATAAATTTGTTA TGCTTGCTCTTATCTTATCTTTTGTATAGGAGTTTGGCCATGACCCCTTATGAGGAGAAAAGGGA TCACCCCTTTTGGCTCTACAACCTTATAGATATTTAAATATCTTT
WI-9986	42 T C ---	---	---	TTGGTGTGAACCTCAGAATATAGGGAAAAAAGACAATTTGAA/T/A,C/GTACCCCGAGGAAACAAGAG CCCTGCACTTGACTCCAAAGGAGTTCTATTCTGGCTGTTCCAGACTTTATTGTATCTTGAGAA GAGAACTGTTTCCCTCTAAATCAGTTTCATCATCTGTATCCAGGTAGTACTCACAAGAACATGTCA ATATCAATAGCATGCATATGGGGTGTGGATTCTTAGAACTTATTGCAATT
WI-7041	174 C A ---	---	---	GTCTATTGCAGGAGAAACGTCCCTTGGCACTCCCACTCTCATCAGGCCAAGTGGAGGACTGGCCAGA GGGCTGCACATGCAAACTCCAGTCCCTGCCCTTCAGAGAGCTGAAAGGGTCCCTCGGCTCTTTATTT CAGGGCTTGCATGCGCTCTATTCCCCCTCTGCCCTCTC/C/ΠCCACCTTCTTTGGAGCAAGGAGATGC AGCTGTATTGTGTAAACAAGCTCATTTGTACAGTGTCTGTTCATGTAATAA
WI-7224	134 T C ---	---	---	ATAAACCCCTTGATGTATCACCACAACCTCACTAATATCAACTTATGTGCTATCAGATATCCTCTCT ACCTCACGTTATTTTGAAGAAAAATCCTAAACATCAATACATTTTCATCCATAAAAATGTCAGCATTT /C/JATTAaaaaaacaataaacTTTTTAAAGAAAAACATAAGGACACATTTTCAAAATTAATAAAAAATAAG GCATTTTAAAGGATGGCCTGTGATTATCTTGGGAAGCAGAGTATTGCTAG

WI-10826	132 A C ---	---	---	TCTATTGCAATTCACAGTAGCCCCCATGAAGTAGGTAGGTATAACCAAGCCTCTATTTTAAACATGAGAAGAT GGAGGCCCTTTCCAAATGGACTAAGTAATGTGCTCAGGTTTTCTTAATAAGCAAAAGACCTGCAJAVC JCCCTGGCTTCTGACTCCAAAGCTTATCCCTTCTCATGCTGTGCTGACGCCAGGACCCCCCATGGCA GAAAGCCAGCCTCTCCATCCCCAC
TIGR- A004S25	145 G A ---	---	---	AGATCTGCCATTAGTATTATTCCTTTGAAGATACCTTTGGAGATTCATTTCTTGAGTGGCACTGCAT GCTCATTGAGTGAACCTTGTTGGGTATAGAATGGAATGGAGAGTTTCAACACAGCTTTGCTGAAAC TGACTTTGGG/AJCTCCAGACTTCACTGTCTTGGGATTGAAACCATCACCTGGTTTGCACTTCTC ATGACTGAGGTTAACTTAAATGACTGAGGTTAACTTAAAC
WI-1021	24 A T ---	---	---	AAACACACAGAATCATCAAGCAC/AJTATCTGTGTTTGAGATAAATGATAGTCTGAGTCACCTATG TAAGAAGTAACCTCTGAAATAGTAGGATAGTATTATCATTTCTGTAAATAGATTACCTCTCAGCAAT TGGTCTGTTTTCATTTCTATGAAACTCTCCGTACTGTAAATTTTCATTTCTATGAAACTCCCCATACTGT AATTGGACAGTTTTGGTTCCAC
WI-4687	121 G T ---	---	---	TAGTATGCACTGCCATGGTAAGGACTTTGATCACTAGGAAATAAGAACACATTTGAATGGTCTTGTC TTTCAATAAAAGAGTGACATGATTGAACATGTGTTTTAGATAAAGGCCACTT[G/J]GCAGGAGTGT TTAGGATGAAGAGAGAGAGATTAAAGGAAGATCAGGAAGAAAGTAGCAATGGAAATGAAATAG GAGGCCCTGAGATCCACTGGATAATCTAAAAAACCAAGAGAAAGAACTTGAT
WI-4719b	107 T G ---	---	---	TTCAATTTCCCTTCCAAATCCTTAGGAAATTTACATTTAGGCTAGTGCCTTTGGGTGTAGCGGATT ATGCTGACGCCATGGGTTCATAAGTGACTTGAGAGT[G/J]ACTGTAGAGGCTACACAGAAATCT CTGTGAGGGGCATGTAATTGTATTCAATCAACAATCTGCTATGCTTCTCAGATTGCAGAAAAATCAC TGCTCAAAATCCCCACTTGTCACATTCCTTAAGACATTTTCACAGGA
WI-4719	70 G A ---	---	---	TTCAATTTCCCTTCCAAATCCTTAGGAAATTTACATTTAGGCTAGTGCCTTTGGGTGTAGCGGATT AT[G/A]TCTGACGCCATGGGTTCATAAGTGACTTGAGAGTTACTGTAGAGGCTACACAGAAATCT CTGTGAGGGGCATGTAATTGTATTCAATCAACAATCTGCTATGCTTCTCAGATTGCAGAAAAATCAC TGCTCAAAATCCCCACTTGTCACATTCCTTAAGACATTTTCACAGGA
WI-9484b	216 G C ---	---	---	TCAACACGCTTTTATTGCCACTTCTGGCTCCCCTCGTCCCAGCAAGATTCCTACCTTACCCTGTAGG AATACTGAGCTCCGATGCAGGGGAATGGGTGGGGTGTACCACCTTCTCCTCTGCACACTGCCAAGT TAAAGAAACCCCTGCTTGTGAGAGGGAGGGGCCAGACAGGGAAATCAAGGGCATGTATGGCTC AGTCCCACCTTCT[G/C]ACTGCAGAGTATAGGGACCAGGGTCCAAACTTT
WI-9484	178 G A ---	---	---	TCAACACGCTTTTATTGCCACTTCTGGCTCCCCTCGTCCCAGCAAGATTCCTACCTTACCCTGTAGG AATACTGAGCTCCGATGCAGGGGAATGGGTGGGGTGTACCACCTTCTCCTCTGCACACTGCCAAGT TAAAGAAACCCCTGCTTGTGAGAGGGAGGGGCCAGACAGG[G/A]AGGAATTCAGGGGCATGTATG GCTCAGTCCCACCTTCTGACTGCAGAGTATAGGGACCAGGGTCCAAACTTT

WI-7330	207	C T	---	---	AGGATGAAGGAGACACGGGGCAGGGAGAACTCTCTTCTGCTAAATCGATAGGAGTCAGTTTTGTCT TAAATGCTGACTACAGCCACTGACATGGTTGGCTGGAATTTCTCTTTAATTTGGCATATAGGTTT GTGACACAAGAGTCATACTTTGGTGGCTAAGTTTTACTAAGGAAAAAATAACTGAAAAAGATTAAAAAG TGAGAGTC/TJTGAAAAGAGAAATGATAATGCTTCCAAACTGTAGCTGTACACAG
WI-9443	211	G A	---	---	TTAAAAACAGTTCAGGTTGGTGAAGCAGAAAAAGGATGTATTACAATTTAAATGAATCAGTCACATT GCACAAATTAATCCTCTTGGCATCATACAAAATGGGTTTTAATGGCAAATGATGACATCATAGCATGA CCAACACTCATGGAAGGCAGCTAGAGTCCATCAGCTCACACCTGAGGGGAAGGCACTGCACCCCA CTGACGAGAC[G/A]CAGAGACCTTGGACTACAGATGACACCATGCCCCACTT
WI-7166	59	C T	---	---	TCTCTAAAAGAGAAAAACAAACCCCTAAGAGACTGAGTTCTGCAAGCATCAGTTCTA[C/T]GGAT CATCAACAAGATTTCCTTGTGCAAAATATTTGACTATTCTGTATCTTTCATCCTTGAATAAATTCGTG ATTTCAAGCAGCATCTTCTGGTTTAAACTTGTGCTGTGAACAATGTCGAAAAGAGTCTTCCAAT TAATGCTTTTTATATCTAGGCTACCTGTTGGTTAGATTCAAGGCCCCGAG
WI-7259b	189	T C	---	---	GGTTCTTCCCAGGAAGCGGGTCTTGGCTTGGAACTTCCAGAGAGGAGGGGAGCAATTTAGCC CCACCTGTCTCCATCTGCCCCCTGCAACAGCTGAGGCTGCTCTCTCTGAGTTCTCTGGGCT GCGCAGGCTCCCCTGGGAATAGAGCAAGACGTGAGTCTAACCTGGCCACAGT[C/T]GGGGGAGCAG AGCCAGCAGGTGGACAGGTGTTGACAGGGGCCCAACTTCCCCTGGAGCTC
WI-7259	188	G T	---	---	GGTTCTTCCCAGGAAGCGGGTCTTGGCTTGGAACTTCCAGAGAGGAGGGGAGCAATTTAGCC CCACCTGTCTCCATCTGCCCCCTGCAACAGCTGAGGCTGCTCTCTCTGAGTTCTCTGGGCT GCGCAGGCTCCCCTGGGAATAGAGCAAGACGTGAGTCTAACCTGGCCACAG[C/G,C,T]TTGGGGGAGCA GAGCCAGCAGGTGGACAGGTGTTGACAGGGGCCCAACTTCCCCTGGAGC
WI-7322	275	A G	---	---	GTACTTTAGGCCTGGAGGGTGGGCAATTTAGTGGTGACCTTGACCCAGGGTTTCTAACAGATGAC CCTGTGAATCATAAATTAACCTGCATATATTTATAGCCAGTCACATTTGCCCTCTCACCCCTATATG GCCATAAACTGCCTAAGCACTCAGGCCCTCCCACTCATCAACCCCTTTGACCAAGAGAAAGCACTC TGGTTCTCTATCCCCTTGTACATAGAGAGTTTGTATGGGGCCTCTGGCTG
WI-7685	46	T C	---	---	TCAGTTCTAGTCTCTCTGGGGCCACACAGAACTCTTTTGGGCTC[T/C]TTTTTCTCCCTCTGGATCA AAGTAGGAGGACCATGGGACCAAGTCTTGGAGCTGAGCCTCTCACCTGTACTCTTCCGAAAAATCCT CTTCTCTGAGGCTGGATCCTAGCCTTATCCTCTGATCTCCATGGCTTCTCTCCCTCTGCCCCACTC CTGGGTGAGCTGTGGCTCAGTCCCCCAACAGATGCTTTTCTGTCTC
WI-563	87	G A	---	---	TGTGACCAATTTGTTATTTTAGAGGGTTTAAACAATGGCCTGACTATCACCTGATGGTCGCCAGATTTT CTGGGGGAGGGCCTCCCC[G/A]CCCTGATCATGTCTACCTAACTGCCTACTCTAACAATACTACTCC TGTGGTATGGGGATCCTAAGCCAAAAAGCTGAATGAACATGTTCTAGCACTACAGAAATCCATACT GCCCTCAGTAAAGGCAATTTTAAATCTCTTTGGATAACCCAGGGCACAT

WI-931c	191 C A ---	---	GACCAGGGACACAGAAAGCCACGGAGCCACAGCCACTAGCCCTGAACCTTGCACACCCCTGGAGTT TCTCTCCCTCCCTATCCCTCACCACACCTTCCAGTGTATTCTGCTGTGTCAAAATGATCCTTCT GTTGCTGCACGTGTCATTACTGTTGTATGGATTATAATTATTGTCCAAAAAGCC[C/A]CGAGCCTGG TACAGAAAAGGCATGGGAAAGATGTGTCAGA
WI-931b	81 A G ---	---	GACCAGGGACACAGAAAGCCACGGAGCCACAGCCACTAGCCCTGAACCTTGCACACCCCTGGAGTT TCTCTCCCTCCCT[A/G]TCCCTCACCACACCTTCCAGTGTATTCTGCTGTGTCAAAATGATCCT TCTGTTGCTGCACGTGTCATTACTGTTGTATGGATTATAATTATTGTCCAAAAAGCCCGAGCCTGG TACAGAAAAGGCATGGGAAAGATGTGTCAGA
WI-931	31 A G ---	---	GACCAGGGACACAGAAAGCCACGGAGCCAC[A/G]GCCACTAGCCCTGAACCTTGCACACCCCTGGA GTTTCTCTCCCTCCCTATCCCTCACCACACCTTCCAGTGTATTCTGCTGTGTCAAAATGATCCT TCTGTTGCTGCACGTGTCATTACTGTTGTATGGATTATAATTATTGTCCAAAAAGCCCGAGCCTGG TACAGAAAAGGCATGGGAAAGATGTGTCAGA
WI-10870b	91 C T ---	---	GGATGACTTACCCCAATAGCAGGGTGGGTACATTCTATGGGTAAACAACCCCTGGACTGGGATGGCAGA GACATCCACCTTAGCAAAGTGGG[C/T]ACCTACTTAGAGCAGTGGAGTACCTGAGTACGACCCCC TTAGCAGCAGAATTACAAGAAATCTTGGGACCTGTACTCTGATACAAAATAAGGACATGGGTGTCAGC CTGAGCCACTCTTAAACCATGAACCATCACCATTTAAATAACGTTGCCCCCCC
WI-10870	103 G A ---	---	GGATGACTTACCCCAATAGCAGGGTGGGTACATTCTATGGGTAAACAACCCCTGGACTGGGATGGCAGA GACATCCACCTTAGCAAAGTGGGACCTACTTAG[A/G]CAGTGGAGTACCTGAGTACGACCCCC TTAGCAGCAGAATTACAAGAAATCTTGGGACCTGTACTCTGATACAAAATAAGGACATGGGTGTCAGC CTGAGCCACTCTTAAACCATGAACCATCACCATTTAAATAACGTTGCCCCCCC
WI-7719b	281 T C ---	---	AGTTTATCTTCCAGATGACCAGCAGTAGACAAATGGATACTGAGCAGAGTCTTAGGTAAAAGTCTT GGGAAATATTTGGGCATTTGGTCTGGCCAGTCTACAATGTCCCAATATCAAGGACAACCCCTAGC TTCTTAGTGAAGACAATGTACAGTTATCCATTAGATCAAGACTACACGGTCTATGAGCAATAATGTG ATTTCTGGACATTTGCCCATGTATAATCCTCACTGATGATTTCAAGCTAAAGCAA
WI-7719	163 A G ---	---	AGTTTATCTTCCAGATGACCAGCAGTAGACAAATGGATACTGAGCAGAGTCTTAGGTAAAAGTCTT GGGAAATATTTGGGCATTTGGTCTGGCCAGTCTACAATGTCCCAATATCAAGGACAACCCCTAGC TTCTTAGTGAAGACAATGTACAGTTATCC[A/G]TTAGATCAAGACTACACGGTCTATGAGCAATAAT GTGATTTCTGGACATTTGCCCATGTATAATCCTCACTGATGATTTCAAGCTAAA
WI-10396	72 C A ---	---	GCCTTGGAGTATATCTAAACTGTGGCCTCCACTTTTCTTTTGAACACATTGCTATCAACTGGGAA GAGT[C/A]TGTGACTTTATGCCAGTTTCCCTCTCAGATTTTATGACGGTGTCTTTCTTTTGTTA TGCCATTTGAGGGATTGATGTTTCTTAAACTATGAAGTACTGGCTGTCTCTCTCCATTGCTGTTCAGG TTAACAGCCACCATTTGTAAACACTTTGT

WI-10673	94 C G ---				TCCCTTTATGCACCCAAAGAGATATTTTAAACACCAATTACGTAGCAGGCCATGGCTCATGGGACC CACCCCGTGGCACTCATGGAGGGGCGTGCGAGTTGGAACATATGCAGTGTCCGGCCACACA TCCTGCTGGGCCCCCTACCCCTGCCCAATCAATCCCTGCCAATAAATCCCTGCTTATTGTTTCATCCTG GAGAAATTGAAGGGAGGTCAAGTTGTTGTCAATGATTTGTCAGAGAACCT
WI-7842	57 T C ---				CACAGCCATGCCCTTGAGGAGCCGCCACCAGATGCTGAATCCCCTATCCCATCTGT/CJGTATGAG TCCCATTTGCCTTGCAATTAGCATTTCTGTCTCCCCAAAAAAGAAATGTGCTATGAAGCTTTCTTTCCCT ACACACTCTGAGTCTCTGAATGAAGCTGAAGGTCTTAGTACCAGAGCTAGTTTTCAGCTGCTCAGAA TCATCTGAAGAGAGAGACTTAAGATGAAGCAAAATGATTCAGCTCCCTTATA
WI-7721	145 A C ---				CTGCCTCATCAGCCCACTGGAGTCCACACTTTGAATTTGGGCAGCTACCACGGGTCTGCCATGCTCTGG AGGAGCAAGGGGGCCACATCCCCACCCAGCTGTACCCAGCCCGGGCAGGTGCAGCCCTTCCCTCCC TGCTCTGC/CJCTGACTCTCTTTGAGGTCCCTGTATGCTACCTCTGACTTCTGTGGTCCCTCTG TGCTGCTCTCATCCATTCCTTACTGGGGCCTGGGGCTTAGCCCCAA
WI-4767b	173 C A ---				TTTCCAGTCTGTTTTATCCTTTTCATTGTCAAAAAGATGCTCTTAGACTGAAATTCATAAAGAGTTCCCT CAGGTCTGGTAATCCTAGATCTTCCCTATATCCATTGAGTGTGAGTTGGAGAGGGTATGTTT CTTGCCCTTGAGAAATCCTAGAAAGCACAGGGATGACA/C/A/AAATCACTAAGGAATTCCTACTAAGA CTCCTCTAACCCAGAGATTTTAACTT
WI-4767	50 A G ---				TTTCCAGTCTGTTTTATCCTTTTCATTGTCAAAAAGATGCTCTTAGACTGA/C/A/ATTCATAAAGAGTT CCTCAGGTCTGGTAATCCTAGATCTTCCCTATATCCATTGAGTGTGAGTTGGAGAGGGGTATG TTTCTGCCCTTGAGAAATCCTAGAAAGCACAGGGATGACACAAATCACTAAGGAATTCCTACTAAGAC TCCTCTAACCCAGAGATTTTAACTT
WI-7718f	222 C T ---				ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAGATG ACTTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAGCTGTGTGAAACAGAAAAATAAGTCAAA AGGAACAAAAATTACAAAGAA/C/T/CATGCAGGAAGGAAACTATGTATTAAAT
WI-7718e	60 T C ---				ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGA/T/CJGCAA GGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAGCTGTGTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAACTATGTATTAAAT
WI-7718d	31 G A ---				ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAA GGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAGCTGTGTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAACTATGTATTAAAT

WI-7718c	91 C G ---			ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCAAGGG[C/G]TGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAGAGGTGAAATGAAGAGGAGCTGTGTTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTAAAT
WI-7718b	248 A G ---			ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAGTG ACTTTGCAGATGGAAGAGGTGAAATGAAGAGGAGCTGTGTTGAAACAGAAAAATAAGTCAAA AGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTJA/GJAT
WI-7718a	42 A T ---	C		ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGC AAGGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGAT AGATGACTTTGCAGATGGAAGAGGTGAAATGAAGAGGAGCTGTGTTGAAACAGAAAAATAAG TCAAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTA
WI-7227d	99 G C ---			AGGGAATTGTTGCTCCTGGAGGAAGCCCGAGGCATCATTAAACAAGCCAGTAGGTCACCTGGCTTC CGTGGACCAATTTCATCTTTCAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGC TTGGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACA GTGTTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATG
WI-7227c	291 G A ---			AGGGAATTGTTGCTCCTGGAGGAAGCCCGAGGCATCATTAAACAAGCCAGTAGGTCACCTGGCTTC CGTGGACCAATTTCATCTTTCAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGCTTT GGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACAGTG TTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATGCAAT
WI-7227b	93 G T ---			AGGGAATTGTTGCTCCTGGAGGAAGCCCGAGGCATCATTAAACAAGCCAGTAGGTCACCTGGCTTC CGTGGACCAATTTCATCTTTCAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGC TTTGGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACA GTGTTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATG
WI-7227a	24 A G ---			AGGGAATTGTTGCTCCTGGAGGAAGCCCGAGGCATCATTAAACAAGCCAGTAGGTCACCTGGC TTCCGTGGACCAATTTCATCTTTCAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGC TTTGGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACA GTGTTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATG
WI-7310b	234 A C ---			CCACAATGCCTCTCCACGATGTCAAGGACTCCTGCTGCTGAGGTGGGAGACAAGGAACCTCCG AAGAGGAAGCAAGAAAGCCGTACTGTCTATGTTGTGATCCTTCATCGAACAACACTGATCGGAAACT TGAATCTGTTACTGAAATGAGGAGAGAGGACATGTGCTATTGAACTGAGCCAAACACACTGTAAAT ATCCACAGACTCCCTCCCTGCCCCCATCCCAAC/CJATGATCTTGAGATTTC

WI-7310a	64 T A ---	---	CCACAAATGCCTCTCCACGATGTCAAGGACTCCTGTCTGTCTCTGGAGGTGGGAGACAAGGAACCTT/A JCGAAGAGGAAGCAAGAAAGCCGTACTGTCTATGTTGTGATCCTTCATCGAACAACTGATGCGAA AACTTGAATCTGTTACTGAAATGAGGAGAGAAAGACATGTGCTATTGAACTGAGCCAAACACACTGT AAATATCCACAGACTCCCTCCCTGCCCCCATCCCAATGATCTTGAGATTTC
WI-7878b	162 A G ---	---	CCAGAACACCTACACCTTGTACACCTGCTGGGACTCCTATGATGGCCTG/C/GTGGTTGATAATAATCA GATATGCCCAAGACGGGCTCCTGATAATCGTCTGGGCATGATTGCAATGGAGGCAATGCGTCC CTGAGGAGAAATCTGGAGGAGCTG/A/GTGTGATGAAGGTGATGTTGGGAGGGAGCACAGTGT CTGTGGGAGCCAGGAAGCTGCTACCCCAAGATTGTTGGTGAGGAAAATA
WI-7878a	51 C G ---	---	CCAGCAACACTACACCTTGTACACCTGCCTGGGACTCCTATGATGGCCTG/C/GTGGTTGATAATAA TCAGATCATGCCCAAGACGGGCTCCTGATAATCGTCTGGGCATGATTGCAATGGAGGCAATGCG GTCCCTGAGGAGAAATCTGGGAGGAGCTGAGTGTGATGAAGGTGATGTTGGGAGGGAGCACAGTG TCTGTGGGAGCCAGGAAGCTGCTACCCCAAGATTGTTGGTGAGGAAAATA
WI-7381c	213 C T ---	---	CTCCACATTCACACAGGCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCCCCCTTTCTTCTACC AGCCCTGCAAGTTTCCTCATGGACGCTCGGAGGAGCAGGCTGCAGGTTTCTGCTATGTTGATGATC AGATGTGGCCAAAGGAAGGAGCTCTGGTCCAGAGAAATTTGCACAAAGTTCCCTCTGTACAGAGACA AAACGGCCTC/TJGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
WI-7381b	54 C G ---	---	CTCCACATTCACACAGGCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCCCTG/C/GCTTTCTTTCT ACCAGCCTGCAAGTTTCCTCATGGACGCTCGGAGGAGCAGGCTGCAGGTTTCTGCTATGTTGATG ATCAGATGTGCCAAGGAAGGAGCTCTGGTCCAGAGAAATTTGCACAAAGTTCCCTCTGTACAGAG ACAAAACGGCTCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
WI-7381a	53 C G ---	---	CTCCACATTCACACAGGCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCCCTG/C/GCTTTCTTTCT ACCAGCCTGCAAGTTTCCTCATGGACGCTCGGAGGAGCAGGCTGCAGGTTTCTGCTATGTTGATG ATCAGATGTGCCAAGGAAGGAGCTCTGGTCCAGAGAAATTTGCACAAAGTTCCCTCTGTACAGAG ACAAAACGGCTCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
WI-1017b	93 G A ---	---	AAATTGCTCTATTCGGACCCCTCATATTAATAAGAGCAATGAGAGCGAGGGAATTTGAACCTCTCTC AGGTACTGACTGTGGGACCAGACAAG[G/A]GATGTAGATTGTACATTCAATCCTGAACAAACCTG CCAGGCAAGTCTTCTCCCATTTACAAATAAGGAGACAAAAATTAGGAGATTAAATAACTCATCAC TGTTTCAAAATAAGGAGTGTGAGGTTTGTCCC
WI-1017a	92 G A ---	---	AAATTGCTCTATTCGGACCCCTCATATTAATAAGAGCAATGAGAGCGAGGGAATTTGAACCTCTCTC AGGTACTGACTGTGGGACCAGACAAG[G/A]GGATGTAGATTGTACATTCAATCCTGAACAAACCTG CCAGGCAAGTCTTCTCCCATTTACAAATAAGGAGACAAAAATTAGGAGATTAAATAACTCATCAC TGTTTCAAAATAAGGAGTGTGAGGTTTGTCCC

WI-1795b	130 T C ---	---	GAAGCAACCAGAAAGTATCTTTATCCCATCTAGATTATGCTGGGTTCTTCAGACTCCTACGATTA AATTGATGCATGTGAACAACCTGATGAGGTACTTAGATCTCAGTGCCTTGCGAGAAAGAAAAGTT/CJC GTCTACCATTTTCACCAAATTCGTAGTACAATTTAAGTATCTCTGTTATCTCCCCCTAGGAGTCTAA AGTGAGCTGGGGAAGGCAGGATTT
WI-1795a	47 T C ---	---	GAAGCAACCAGAAAGTATCTTTATCCCATCTAGATTATGCTGGGTT/CJCTCCAGACTCCTACGGA TTAAATTGTATGCATGTGAACAACCTGATGAGGTACTTAGATCTCAGTGCCTTGCGAGAAAGAAAAGTC GTCTACCATTTTCACCAAATTCGTAGTACAATTTAAGTATCTCTGTTATCTCCCCCTAGGAGTCTAA AGTGAGCTGGGGAAGGCAGGATTT
WI-10616d	136 G A ---	---	CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTTCCACGTCCTCCATACGTAGGTCTGCTGCTCCTATCACAATTGCCA C/GAJTAGCCCTCCCTTCCCTTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATCTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
WI-10616c	136 G A ---	---	CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTTCCACGTCCTCCATACGTAGGTCTGCTGCTCCTATCACAATTGCCA C/GAJTAGCCCTCCCTTCCCTTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATCTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
WI-10616b	141 C T ---	---	CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTTCCACGTCCTCCATACGTAGGTCTGCTGCTCCTATCACAATTGCCA CGTAGC/CJTCCCTTCCCTTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATCTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
WI-10616a	116 G C ---	---	CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTTCCACGTCCTCCATACGTAGGTCTGCTGCTCCTATCACAATTG CCACGTAGCCCTCCCTTCCCTTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATCTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
WI-1126c	52 G A ---	---	CTCTTAATTTCTCTGGGCACTGCTTTCTTTGGGGGCAAACTTCCAGTATCACTG/AJATACTAATAA AAACCCCTGTAAGTCTGCTTGCAATTTTCAAGATTCAATATATATCCAGATTGTTTCCCAGGAAAGAA AATTTTATTTCTCAAGATATAAAAAATAAATATTTAATTTCAAGTTTCCCTCAAAAGGAATATGAAATT TGTTAAATGCAAAATCCAGCTGTAACTTTTTTTGGACTTGCTTTTATTCTT
WI-1126b	230 T C ---	---	CTCTTAATTTCTCTGGGCACTGCTTTCTTTGGGGGCAAACTTCCAGTATCACTGATACTAATAAAAA CCCTGTAAGTCTGCTTGCAATTTTCAAGATTCAATATATATCCAGATTGTTTCCCAGCAAGAAAAATT TTATTTCTCAAGATATAAAAAATAAATATTTAATTTCAAGTTTCCCTCAAAAGGAATATGAAATTGTT AAAAATGCAAAATCCAGCTGTAACTTTTTTTT/CIGGACTTGCTTTTATTCTTT



WI-1126a	97 T C ---	---	CTCTATTCTCTGGGCACTGCTTTCTTTGGGGGCAAACTCCAGTATCACTGATACATAATAAAAA CCCTGTAAAGTCGTGCAATTTCAAGATTC/CAATATATATCCAGATTGTTTCCCAGCAAGAAA ATTTTATTCTCAAGATATAAAAAATAAATAATTTAATTTCAAGTTCCCTCAAAAGGAATATGAAATTT GTTAAATGCAATCCAGCTGTAACATTTTGGACTTGCTTTTATTTCTT
WI-11183c	124 C T ---	---	TAGTGCTAAATTTTGGAAAAGTTTGCTGATTTTAAAAATCTTTTAAACTTGAAAAATTTAGAGTAC ATATAAATAAAATAAGACCAGATAGGTATTAATTCAGATGATTTTGGCCCTTGTCACATAACATTT TTTATGACATACAAATGACCAAAATGATGTTTTATGAAGTGTAGGATAGAGTTTTAAATTC/CAATGGT ATGTGGTGTAGAGTTAGTAATGGAA
WI-11183b	192 T C ---	---	TAGTGCTAAATTTTGGAAAAGTTTGCTGATTTTAAAAATCTTTTAAACTTGAAAAATTTAGAGTAC ATATAAATAAAATAAGACCAGATAGGTATTAATTCAGATGATTTTGGCCCTTGTCACATAACATTT ATGACATACAAATGACCAAAATGATGTTTTATGAAGTGTAGGATAGAGTTTTAAATTC/CAATGGT ATGTGGTGTAGAGTTAGTAATGGAA
WI-11183a	118 C T ---	---	TAGTGCTAAATTTTGGAAAAGTTTGCTGATTTTAAAAATCTTTTAAACTTGAAAAATTTAGAGTAC ATATAAATAAAATAAGACCAGATAGGTATTAATTCAGATGATTTTGGCCCTTGTCACATAACATTT TTTATGACATACAAATGACCAAAATGATGTTTTATGAAGTGTAGGATAGAGTTTTAAATTC/CAATGGT ATGTGGTGTAGAGTTAGTAATGGAA
WI-10770b	174 G A ---	---	GCTTGGTTGCTTTAGTCTTATTGTCTCAGTCTTGAGTCTCCCTTCTGCGTGGCCCTTTTGATTTCA CCCATACCTCTATGCCCTCGTCTCAGACCAATTCCTCTATCTGGAGCGCTCTCCCTGTACTTTCTCCTG TTACCAACCTTCTTTTATTCTTCAGGACACTCA[G/A]TTCACATGCCACTCTCGTGACACTGTCTCT TTCACATCTTTCTGTGTCCTTTCCCTTTCCCT
WI-10770a	49 G T ---	---	GCTTGGTTGCTTTAGTCTTATTGTCTCAGTCTTGAGTCTCCCTTCT[G/T]CCTGGCCCTTTTGATTT TCACCATACCTCTATGCCCTCGTCTCAGACCAATTCCTCTATCTGGAGCGCTCTCCCTGTACTTTCTC CTGTTCAACCAACCTTCTTTTATTCTTCAGGACACTCAGTTTCACATGCCACTCTCGTGACACTGTCTCT TTCACATCTTTCTGTGTCCTTTCCCTTTCCCT
WI-9667b	82 C T ---	---	GATGACAACTTCTGCTGTGACCCCTTAGTCTTGGTCTGATGACACTTTTCAATCTCTGCCCTTGATCATGG TTATCACTGGACA[C/T]AGCCACCTCCCAGCAGGGTTAGAATCCATGAGTAAGGGACCCCTGTCTA ATGTGCCGTTTCTCCTTATGGTATTACACACAGTCAATAGGCATGGTAGTCAACTAATGGATCTTGGCT GTTTAAACCTTTTCTCTGTACCCAGTACCTAAGTCCAAACTTGCATTCT
WI-9667a	68 G C ---	---	GATGACAACTTCTGCTGTGACCCCTTAGTCTTGGTCTGATGACACTTTTCAATCTCTGCCCTTGATCATG G/C/TTATCACTGGACACAGCCACCTCCCAGCAGGGTTAGAATCCATGAGTAAGGGACCCCTGTCTA ATGTGCCGTTTCTCCTTATGGTATTACACACAGTCAATAGGCATGGTAGTCAACTAATGGATCTTGGCT GTTTAAACCTTTTCTCTGTACCCAGTACCTAAGTCCAAACTTGCATTCT

WI-10400d	189 A G ---	---	ACATTTTATTAGCAAAACAAATCAGCAAAATAATAATAGAAAGTAATTGCATTTTCAGACATCTGCTG GTTAACTGTTATAAGATGGTTAGCACACATGTAGCACATTTACTAACACAATATTTTATTCTAAATTT TCCTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTC[G]AGJTGCCATGTAG TTTTTGGTTCATTTACTTGCAAATATTCAAAGGCGTTAATGCATTATG
WI-10400c	166 A C ---	---	ACATTTTATTAGCAAAACAAATCAGCAAAATAATAATAGAAAGTAATTGCATTTTCAGACATCTGCTG GTTAACTGTTATAAGATGGTTAGCACACATGTAGCACATTTACTAACACAATATTTTATTCTAAATTT TCCTTCCCTTACCTTTACTCTCCCAACCA[A/C]AAATAACGTAAGTACCTATGTCATGCCATGTAG TTTTTGGTTCATTTACTTGCAAATATTCAAAGGCGTTAATGCATTATG
WI-10400b	165 A G ---	---	ACATTTTATTAGCAAAACAAATCAGCAAAATAATAATAGAAAGTAATTGCATTTTCAGACATCTGCTG GTTAACTGTTATAAGATGGTTAGCACACATGTAGCACATTTACTAACACAATATTTTATTCTAAATTT TCCTTCCCTTACCTTTACTCTCCCAACCA[G]AAATAACGTAAGTACCTATGTCATGCCATGTAG TTTTTGGTTCATTTACTTGCAAATATTCAAAGGCGTTAATGCATTATG
WI-10400a	46 T C ---	---	ACATTTTATTAGCAAAACAAATCAGCAAAATAATAATAGAAAGTAATTGCATTTTCAGACATCT GCTGGTTAACTGTTATAAGATGGTTAGCACACATGTAGCACATTTACTAACACAATATTTTATTCTA ATTTTCTTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTCATGCCATGT AGTTTITGGTTCATTTACTTGCAAATATTCAAAGGCGTTAATGCATTATG
WI-10809b	78 C T ---	---	AAAGGGCTACAAACTAAGGCCAAAAACCATGAACGGTATAAGGAGGGTAAATGCAAGGGGAGACCC CACCTCTCACC[A/C]TTAGAAAAGGGCATTTCAGACACATTTCAATGAGGCTTCATATACTGGTTAG CAACAAATGGAATGTATTAGCCCAAGGCAGGGTATGGACCAAAAGTGCCCAAGTATGAGGCCACA GTGAATATCCACCTAACGACCTTCTTGGATGATGTACACATGACATAGGCTTAA
WI-10809a	33 C T ---	---	AAAGGGCTACAAACTAAGGCCAAAAACCATGA[A/C]TGGTATAAGGAGGGTAAATGCAAGGGGAGA CCCCACCTCTCACCCTTAGAAAAGGGCATTTCAGCACATTTCAATGAGGCTTCATATACTGGTTAGC AAACAAATGGAATGTATTAGCCCAAGGCAGGGTATGGACCAAAAGTGCCCAAGTATGAGGCCACAG TGAATATCCACCTAACGACCTTCTTGGATGATGTACACATGACATAGGCTTAA
WI-7038c	266 T C ---	---	CGAGCTTGGGATAAAGCAAGGGGACCTTGGCGCTCTCAGCTTCCCTGCCACATCCAGCTTGTGTCC CAATGAAATACTGAGATGCTGGGCTGTCTCTCCCTCCAGGAATGCTGGGCCCCCAGCTGGCCAGAC AAGAAGACTGTCAGGAAGGGTCGGAGTCTGTAAACCAGCATACAGTTTGGCTTTTTCACATTGAT CATTTTATATGAAATAAAAAGATCCTGCAATTTATGGTGTAGTCTGAGTCC
WI-7038b	140 A C ---	---	CGAGCTTGGGATAAAGCAAGGGGACCTTGGCGCTCTCAGCTTCCCTGCCACATCCAGCTTGTGTCC CAATGAAATACTGAGATGCTGGGCTGTCTCTCCCTCCAGGAATGCTGGGCCCCCAGCTGGCCAGAC AAGA[C]GACTGTCAGGAAGGGTCGGAGTCTGTAAACCAGCATACAGTTTGGCTTTTTCACATT GATCATTTTATATGAAATAAAAAGATCCTGCAATTTATGGTGTAGTCTGTA

WI-7038a	31 G A ---	---	---	CGAGCTTGGGATAAAGCAAGGGGACCTTGGCG[A]CTCTCAGCTTCCCTGCCACATCCAGCTTGTTG TCCCAATGAAATACTGAGATGCTGGGTGCTCTCCCTCCAGGAATGCTGGCCCCCAGCCTGGCCA GACAAGAAGACTGTGAGGAGTGGAGTCTGTAAACACGACATACAGTTGGCTTTTTCACATT GATCATTTTATATGAAATAAAAGATCCTGCAATTTATGGTGTAGTTCTGA
WI-3429b	64 G T ---	---	---	ATACGCTTCTGTCTGTCCACAGTGGAAACAGCACCCAGGTGCCAGGGTGGGCTCCACACA[G/T] CCCTCAGCCCCCTTCAGCTTTGCATGTGCCATCGGTGACTCAGCACAGAGTTTCCAACCTCATGTGA CAAAAATACAGATCCAGTCTCCTCTCCTGGATTGGATCTAGCAAGACCAGAGACGGTCCCTAGAA TCCTGACTGTTAACAGCACTCCAGGCAATTCCTAAGACCAAGCACGGAGC
WI-3429a	62 C T ---	---	---	ATACGGTTTCTGTCTGTCCACAGTGGAAACAGCACCCAGGTGCCAGGGTGGGCTCCACACA[C/T]AG CCCTCAGCCCCCTTCAGCTTTGCATGTGCCATCGGTGACTCAGCACAGAGTTTCCAACCTCATGTGA CAAAAATACAGATCCAGTCTCCTCTCCTGGATTGGATCTAGCAAGACCAGAGACGGTCCCTAGAA TCCTGACTGTTAACAGCACTCCAGGCAATTCCTAAGACCAAGCACGGAGC
WI-6786c	151 G A ---	---	---	ATTTAGGACAGTGA AAAAAGGGATTATAAATAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGAAAGGATAAAGAGTGAGTGACGGTGACCT GTGAGCCCCATTCTT[G/A]TGGGATAAGGTGTCATTGTTTCTGGAGGGTGAATGCCACATTCT TTTTGGCAGGGGACACTCCTCTGGGTGCTCTATGCTCAGTTTCATCAT
WI-6786b	111 A T ---	---	---	ATTTAGGACAGTGA AAAAAGGGATTATAAATAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGAAAGGAT[A/T]AAGAAAGTGAGTGACGGTGA CCTGTGAGCCCCATTCTCTGTGGGATAAGGTGTCATTGTTTCTGGAGGGTGAATGCCACATTCT TTTTGGCAGGGGACACTCCTCTGGGTGCTCTATGCTCAGTTTCATCAT
WI-6786a	106 A T ---	---	---	ATTTAGGACAGTGA AAAAAGGGATTATAAATAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGAA[A/T]GGATAAAGAAAGTGAGTGACGGTGA CCTGTGAGCCCCATTCTCTGTGGGATAAGGTGTCATTGTTTCTGGAGGGTGAATGCCACATTCT TTTTGGCAGGGGACACTCCTCTGGGTGCTCTATGCTCAGTTTCATCAT
WI-6711b	226 G T ---	---	---	GGCTATTTGTAATGCTTGGTTATTTGACTCCAAAATGAATAAGTATGGGGAAGAAATCCCTCACCT ACTTCCAAATCCCTACATATCAATTTACACAAAGCCCCCTAAACCTCAGTTCCCAATCAGTCTGAAT TTCATATACCTCCATTATTAATTAATCAATACATCATTCAGAGAGAAAAGACACGGTGCCAACTGGGTT TGGTTGGTGCCTGCACACCCACA[G/T]TGGCAACTAAGTGTAACTCTCTAAA
WI-6711a	36 T C ---	---	---	GGCTATTTGTAATGCTTGGTTATTTGACTCCAAAATGAATAAGTATGGGGAAGAAATCCCTC ACCTACTTCCAAATCCCTACATATCAATTTACACAAAGCCCCCTAAACCTCAGTTCCCAATCAGTCT GAATTCATATACCTCCATTATTAATTAATCAATACATCATTCAGAGAGAAAAGACACGGTGCCAACTG GGTTTGGTTGGTGCCTGCACACCCACAGTGGCAACTAAGTGTAACTCTCTAAA

WI-10613b	172 A C ---	---	ATTGTATGCCAAATCATATAACCTGCAATCTAGAAACATACAGTGTAAATAGAAATTTTGAGCCATA TGGTGAAAAATTTAGAAAGTATTATCTCTATATGTATATACGTAAACATCAATGAATGTGATTT TTTGTCAACTTTTGACAAGGCCAGGCAATTTTATTTG[A/C]GCCCTAGGAGGTTACTATAATTTAGA AAGGCTCTTACCTTCCACTCTATAATTTAAGTCTCGGACTTAGGATGTAG
WI-10613a	44 G A ---	---	ATTGTATGCCAAATCATATAACCTGCAATCTAGAAACATACAGTGTAAATAGAAATTTTGAGCC ATATGGTGAAAAATTTAGAAAGTATTATCTCTATATGTATATACGTAAACATCAATGAATGTG ATTTTGTCAACTTTTGACAAGGCCAGGCAATTTTATTTGAGCCCTAGGAGGTTACTATAATTTAG AAAGGCTCTTACCTTCCACTCTATAATTTAAGTCTCGGACTTAGGATGTAG
WI-7587c	133 A T ---	---	GCTCTAGTGGGAAACCTCAGGTAGCTCCGAGATCTGTGCTTTCCAACAAGTGACTACCCCTTGAAGC ACATCCCTTCTGGATCTGAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAA[A] TJGGAATGAACCACTCCCTGCCATTCCCTATAAGAATATCCCAAGACCCAGGCAATTTTGCCCTCT TTCCACATGCCCTCATATGTCTGAGCCAACTGCACCTGGGGCTGCCCTC
WI-7587b	81 G A ---	---	GCTCTAGTGGGAAACCTCAGGTAGCTCCGAGATCTGTGCTTTCCAACAAGTGACTACCCCTTGAAGC ACATCCCTTCTGTG[A]ATCTGAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAAA AGGAATGAACCACTCCCTGCCATTCCCTATAAGAATATCCCAAGACCCAGGCAATTTTGCCCTCTT TCCACATGCCCTCATATGTCTGAGCCAACTGCACCTGGGGCTGCCCTC
WI-7587a	28 C T ---	---	GCTCTAGTGGGAAACCTCAGGTAGCTC[G/T]GAAGATCTGTGCTTTCCAACAAGTGACTACCCCTTGA AGCACATCCCTTCTGGATCTGAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAAA AGGAATGAACCACTCCCTGCCATTCCCTATAAGAATATCCCAAGACCCAGGCAATTTTGCCCTCTT TCCACATGCCCTCATATGTCTGAGCCAACTGCACCTGGGGCTGCCCTC
WI-10681b	103 T A ---	---	ATGACTCAGGTGACAAAAGAGCATGTCTCTAGACCCCATTTGACTTACGCAAACTCAATCAGCCAACC ACAGAAAAGCTAAAGACATCCTTTTTTAAAAAGCC[T/A]AAGACAGCCATTTTAACTCAATTGCG TAGTTTATGATTTTCTCAAAATTTCCACACACAGAAAAGAACTTCAAGGTAGGTTCTAATGTTA CCATTGCTAACACTATTGTCTTTGGAGAGGAGGTGACGCTCTGTTAAAAG
WI-10681a	41 A T ---	---	ATGACTCAGGTGACAAAAGAGCATGTCTCTAGACCCCATTTG[A/T]CTTACGCAAACTCAATCAGCCA ACCACAGAAAAGCTAAAGACATCCTTTTTTAAAAAGCCCTAAAGACAGCCATTTTAACTCAATTGCG TAGTTTATGATTTTCTCAAAATTTCCACACACAGAAAAGAACTTCAAGGTAGGTTCTAATGTTA CCATTGCTAACACTATTGTCTTTGGAGAGGAGGTGACGCTCTGTTAAAAG
WI-7222c	126 G T ---	---	GCCTCTCCTCACTGTCTGGACCCAGGCTAGGAAAGGGGCTGTGAGATGACTGTGTTCCCTCCCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGTCACCTGTCTCAAGTTGGGGATGGG[G/T]AATAA AGGAGGGGAATTCCTTGAACAAGAAGAACTGGGGATAGTTATATTTCCACCTGCCCTTGAAGCTT TAAGACAGTGATTTTGTGTAAGGTTGTATTTCAAAGACTCGAATTCATTTT

WI-7222b	255 G A ---				GCCTCTCCTCAACTGTCTGGACCCCAAGGCTAGGAAAGGGCTGCTTGAGATGACTGTGGTCCCCCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGCACCTGTTCTCAAGTTGGGGATGGGAATAAAGG AGGGGAATTCCCTTGAACAAGAAGAACTGGGATAGTTATATTCACCTGCCCTTGAAGCTTTAA GACAGTGATTTTGTGTAAGGTGTATTTCAAGACTCGAATTCATTTCTCA
WI-7222a	126 G T ---				GCCTCTCCTCAACTGTCTGGACCCCAAGGCTAGGAAAGGGCTGCTTGAGATGACTGTGGTCCCCCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGTACCCCTGTTCTCAAGTTGGGGATGGG[G/T]AATAA AGAGGGGAATTCCCTTGAACAAGAAGAACTGGGATAGTTATATTCACCTGCCCTTGAAGCTT TAAGACAGTGATTTTGTGTAAGGTGTATTTCAAGACTCGAATTCATTTT
WI-8054d	41 C A ---				AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTT[C/A]TTATCTCTCCAGTTCAAAATG CTTGCACTCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGCTCAACGCACTCAAGCCTTAGCA CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTGCCACCATAGCCACTCTGCT TCCTGTATACGCCGCTTCCCTGGCGTACAGAGATCCTTGGCCCTT
WI-8054c	237 G T ---				AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGCTCAACGCACTCAAGCCTTAGCACAA TCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTGCCACCATAGCCACTCTGCTTCC TGTATACGCCGCTTCCCTGGCGTACAGA[G/T]AATCCTTGGCCCTT
WI-8054b	148 T C ---				AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGCTCAACGCACTCAAGCCTTAG[C/G]A CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTGCCACCATAGCCACTCTGCT TCCTGTATACGCCGCTTCCCTGGCGTACAGAGATCCTTGGCCCTT
WI-8054a	131 C G ---				AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGCTCAACGCACTCAAGCCTTAG[C/G]A CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTGCCACCATAGCCACTCTGCT TCCTGTATACGCCGCTTCCCTGGCGTACAGAGATCCTTGGCCCTT
WI-10854b	152 G T ---				TTCCACAAAACCTTCCCTGGCCGGGTGACTAAGATGAGAAAGTGGGAGAACTGGATAGTTTAAATAA ATGTTTATATTTTACTTTAAAGCGAAGTTGAAACACGAAAGACGATAGTTAACGCTGGTAAGTTTAT ACGGTGTGCGAGGCAACA[G/T]GGAGAGGTACGGGAATAGTTCTACTTCTGTTTTTATTCTTG TTTTAGACACAGGGTCTGCTGTGTG
WI-10854a	102 C T ---				TTCCACAAAACCTTCCCTGGCCGGGTGACTAAGATGAGAAAGTGGGAGAACTGGATAGTTTAAATAA ATGTTTATATTTTACTTTAAAGCGAAGTTGAAACA[C/T]GAAGACGATAGTTAACGCTGGTAAGTT TATACGGTGTGCGAGGCAACAGGGAGAGGTACGGGAATAGTTCTACTTCTGTTTTTATTCTTG TTTTAGACACAGGGTCTGCTGTGTG

WI-9826b	127 G A ---	---	AAATTTATATGTGAAGGGTTAGCAAACTATGCCCCACAGGCCCATCTAGCCATGCCATATTTTGTG TGCCTGATGGCTGTTGGTGTGTTGCACGCAGTTGAGCCATTGTGACAGAGGCTGTTATG/AJGCCTT CAAGCCCAAAAAAATTTACTCTCTGGCCTTGACGGGAAAGTTTGCTGATTCTAGATAATTTAAAG GGCAGAGAAGATCAGAAGTGTGAA
WI-9826	125 A T ---	---	AAATTTATATGTGAAGGGTTAGCAAACTATGCCCCACAGGCCCATCTAGCCATGCCATATTTTGTG TGCCTGATGGCTGTTGGTGTGTTGCACGCAGTTGAGCCATTGTGACAGAGGCTGTTATG/AJGGCCTTC AAAGCCCAAAAAAATTTACTCTCTGGCCTTGACGGGAAAGTTTGCTGATTCTAGATAATTTAAAG GCAGAGAAGATCAGAAGTGTGAA
WI-15986	60 T G GTGGGTTTT	TTGTTTGTGT GAAAATGT	CGGACACGTGTATATACAAATACAGATCGTATGGGTTTGTGTGGGTTTTTTTTTGTGTTAC ATTTCTTTTACGTTTATATAATGTCAGCATTTCAA
WI-8655	29 A G AG	AACTGCAAAAT AGGAAACCAG TCCC	TTCAAGTAACGTCAAATAGGAAACCAGAG/AJGGGAGCCCCCAGGTGGGACAAATCATGGCTACCCC TCCCCAACAGAACAGGGGAGGAGGTGGCCCCCTACACCCCTTAT
WI-8170b	259 G A ---	---	GCACCTCTCTCTGAGCAACAGGTACACTTTTTTCTCTAACATTGATCTATAACACACCAGAACCG TGTTTTAATAGCTGCTGATAAATGAACCTATTTTAAAGTACTTACCAAGATGCTGTGGTAAGGTTAG CATTTGGTGGAGAGATTTACAAGGTTAAGATCATGTGCCATCAAAGTGCAATCCTATCAATCAGAA ATAAAGGTAAAGGGCCCTCAAATGAAATCTACGGAAAAACATAACAAGA
WI-8170a	204 T A ---	---	GCACCTCTCTCTGAGCAACAGGTACACTTTTTTCTCTAACATTGATCTATAACACACCAGAACCG TGTTTTAATAGCTGCTGATAAATGAACCTATTTTAAAGTACTTACCAAGATGCTGTGGTAAGGTTAG CATTTGGTGGAGAGATTTACAAGGTTAAGATCATGTGCCATCAAAGTGCAATCCTATCAATCAGAA A/T/AJAAAGGTAAAGGGCCCTCAAATGAAATCTACGGAAAAACATAACAC
WI-8172	136 C G GACA	CCTTTATTAAA ATTGTTTCTT AAAGGTAC	CAGGATTCCTTAAGTCATCTCCAATACTCCAGGTACATGGTGAAGAGTCACCTGTTAAACACGAA ATCTAACCATTAAACAAGCTTTTAAATCCTTCGGTAACCTCCCTTTTAAATGTTTCTTGACAT A/C/GIAGTACCCTTTACAGGTATTACATTTCTCTCACCCGTTTACA
WI-8183	56 G A TGC	TGAAATAAAA ACAAATTTCTGT	AGCAGGGTTTGAATGTATCCCTTATTTTACATGAAATAAAAACAATTTCTGTTCG/AJGACGGTT TGATTTCAACACAGTTGAATCTGTAAAAACCAAGCTCGTTTCTGATGCAGGACAAAATATCCACAAT ATTTAAACTGCAAGCACCATGC
WI-14149	83 C T ---	---	GCCTTATTGGGATTGCAAGGTTACAAGTTAAAGACAAAACCAAGCATGGGATTTTGCCTGGAAT ATTAGCGTTAAAGGAG/C/JTGAGTTGAGTCAAAACACGGG
WI-8712	44 G A G	CACAGGGAAG AGGTAGTGGA ACCATCTC	TCAACAATGACACTGTGTAAACAGCACAGGGAAGAGTAGTGGAG/G/AJGAGATGGTCAGGCTTCCTG TTCCCTAACACAGAGAGCCCGACCAACCTAGAGCGCCTCACCTAGCCTCTTAAT

WI-8827	22 C T	TOCCCTGGGAG ACTATGG	CGGATTAGGAT TTTAGTGTTCAC	GGTGTCCTCCCTGGGAGACTATGG[C]/TJAGTGAACACTAAATCCTAATCGCCATGCATTGGAATTATT CCGACTATTACTTCTTTAGTTCCCTTCTTATCCACCCAGTCTTCT
WI-8833	51 A T	TCCTCCATGCC ATTCTCTG	CCTCAGACATT ATAGGGGCA	CTCCGGCTCTTAAAGCTCTCTGTAGACTGTCTCTTCCATGCCATCTCTG[A]/TJGGCCCTATAATGT GTGAGGGTATTACAATAGTCCCTATTCAAAGTCTTGCATATAAAAGGTGAGTATGT
WI-8377	63 A G	---	---	ATTTTATGCCATGTTGGTAAAGTTCAITTTTTCAGTACATGGGTAAACCCAGGCCCTTTCC[C]/GJT TATATCCAGGTATGCTACAAGTTCTTTAACTCTTATCAGAAGTTATTATTACTGTTTCTTAGAGAG GCTACCAGGCTAAATTCACCTAGTTGGTTGTCTAATGCCICATTATTTATCCCTGAAGCTCGTG
WI-8850	21 A G	GGGACTTAAC CTTTGGCCT	CAAACAGCCA GGCAGG	GAGGGACTTAACCTTTGGCCT[A]/GJCTGCCCTGGCTGTTTGGCTCTGGCTTGTCTGTTTGGTTCTT TCTCTTCTACTGGICTTTCTTTGCTTTTGGCAGCCACCTATGCTGCTGT
WI-8853	79 C T	CCGGGCAATG AGGATA	AGTCTTCTCTGA GCCITCCAT	ACTTTTCTTGAGCTGAGCAACCTCATCTCTTTAGCTTCTGGTTGATAACGCTGTTAATCCCGGG CAITGAGGATA[C]/TJATGGAAGGCTCAGGAAGACTTCATTCTCAA
WI-8865b	52 A G	---	---	AGGTGACTGTGAATCACAGGCACAGACTGAGGAAGACAGTATGGTGAACA[A]/GJACAACATGCT TCGGACTTACCAAAGGGAGAGTCGAGCTTTCATATAAA
WI-8865a	42 T C	CACAGACTGA GGAAGACAGT CA	GGTAAGTCCGA AGCATGTTG	AGGTGACTGTGAATCACAGGCACAGACTGAGGAAGACAGTCA[T]/CJGGTGAACAACAACATGCT TCGGACTTACCAAAGGGAGAGTCGAGCTTTCATATAAA
WI-8895	32 A C	---	---	GTCCACAAACCTGGACACCAACCAAGAA[T]/CJCTCCCGTCTTTGAAATTTCCATTAAAGAGCA CAATGGGGTAATTATACCAGGGATGCTCCAATCGCTCTTTC
WI-8456	93 G C	---	---	CCTTTTAAAGTCACAGTCAACTCGACTGTGGACTGATATATTGTGAAATATAATAAACTCTTTCC AAGGCTCCCATGCTTGGATGTCACA[G]/CJTATGTCAAGTTAATAAACAATTTCTAAGTGTCACTC TCAACTTCTGTGTTATCTTGCCATGGTCCAGTAACAGTTACACGGCAGACCACAAGTTGTGTAGCAC TGGCATAGACGAGGGCTTCTCAAACCTCCCGTCTGGGTCTCAGTCACCCAC
WI-8496b	157 A G	---	---	TTTCATCATCAAAAAGTTTCTTTCCATAGAAGAAATGGTAA[T]/GJTTGTATCAGTGCATATTTCTATGAAA ATTATATCTCAAGTAAGTAACTAGCCTAGAAATCAGAGACAGCAGTATGTCAAGCTAGTATACAAGTCA AAGACACAATGCTGCCAATGCA[A]/GJTATAGTATATAGAAATAATACGCAGCTGTTAGAAAAAGTCT GTGGCCAAGTGGGATAAAACAGTAGCAGTGCAC
WI-8496	41 G A	---	---	TTTCATCATCAAAAAGTTTCTTTCCATAGAAGAAATGGTAA[T]/GJTTGTATCAGTGCATATTTCTATGG AAAAATTCATATCTCAAGTAAGTAACTAGCCTAGAAATCAGAGACAGCAGTATGTCAAGCTAGTATACAAG GTCAAAGACACAATGCTGCCAATGCAATTAGTATATAGAAATAATACGCAGCTGTTAGAAAAAGTCT TGTGGCCAAGTGGGATAAAACAGTAGCAGTGCAC
WI-14153	28 A G	GTGCAGGAAG GCCAGC	AACGGCAGGA GGGGA	CTGCAGGTCTATGTGCAGGAAGGCCAG[C]/GJTCCTCCCTGCGGTTGTACCCACATCCACAGAGCA GCCCTAGTGCCAGGTGACGCCACTGCCACCCACGGGCACACGGGAACAGGACCCATGCTGC

WI-12108	40 C T A T A	TGAAAAGGG TTAAACTCAA	TTGACCTGGTA TAATGAAAGT ATTTG	TCATGTATTACTTTCTGAAAAAGGTTAAACTCAAATATC[CT]GAAATACTTTTCATTATACCAGGT CAAGAAAAATGCCACAGCCAGAAAAATTTATTTAA
WI-5989	29 G A C A C A G G C A	CCACAAAGGT CACAGGCA	GGGTATAACAG AACCGTATGTA CG	CAGGCAACGTCACAAAGGTCACAGGCA[G/A]CGTACATACGGTTCTGTTATACCCCATATATTAC CCCTTCATGTCCTAAAGAAGACATTTTCTCTTAGAGATTTTCATTTAGTGTATCTTTAAAAAAAAT CTTGTTAACTTGCCTCCATCTTTCTTGGTGAGGACACC
WI-12201	61 C T C C T G C A T G	CCCACTGATCA CCTGCATG	CCGACCACATA CCTGGC	ATAGCTTTTAGCCTTTTCTGGAGTGTATGTCCCAAGCCCACTGATCACCTGCATG[CT]GCCA GGTATGGTGGGGGTGATGGACGTGGGTTTGCAGCCCTCCACTGCTCGATAAAGGC
WI-12018	31 A T T C T G A C T T	GGCAGCCAGC TCTGACTT	GGAGAGATGAC AGAAACAGAG AG	TTTTTATCTGCAGGCGCCAGCTCTGACTT[A/T]CTCTCTGTTTCTGTCATCTCTCCCCACATACCA ACTTCTTACCATGATGATTATACCAATAATACAGTTCTTATATAGGGGCTCTGGAAAAATTAGAC AGTGAAGCATGTTGCAG
WI-14162	57 A G C C T C	TGGCCTCGCTG CCTC	AGGGATCAAA GAGAAAAGGC	TTTTTCGTTTGTAAATGATCCGAATGCTTGAGAAGAAACCCCTGGCTCGCTC[A/G]GCCTTTT CTCTTTGATCCCTGAGTTGCTGAGATTAAAGATGAGTGCCCAAATGAGAGCTACCAAGATGTAGTCG AGCGG
WI-15407	92 A G T T	CATGCCCTTTA AGGATTAAGT	TCTTTTCTCTTT TGGTAGTGTTG	AGCATGTAAGGAGCAGTTTTATTGATTGGTATATTACAGTTTCTAACCCAGCTGAAAAATTCAAATA CATGCCCTTTAAGGATTAAGTTTAA[A/G]CCACACTACCAAAAAGAGAAAAATTATATGATCACAT ATAAGCAATGGAATCAGCA
WI-12319	109 T C A A T T	GTTGAGTATT GTTCTGCTCAT	GGGAAGGTCGT GTACATATTGG	TCTGATGTCATTTATTGGCACAATAATTTCTGTACAAACATGGTGTCTAGACATGGCTACACTTTA TACTTGTGCAATTAGTTGAGTATTTGTTCTGCTCATAAATTT[C]CCAATATGTACCAGACCTTCCC
WI-12326	25 G A C A	GACAGACTTC AAAAGCAAAT	AGGTTTGAAAA TATGTAATTAAG TACTTTGT	CTGACAGACTTCAAAAAGCAATTCAC[G/A]CTTCCAGAATACAAAAGTACTTAATACATATTTTCAAAAC CTGTTTGCATTTCAAAACAAAGTTAGCGTTTTTGTAAATCAAAATTTGATAACCCGACTAAAAAT
WI-12361	63 C T ---	---	---	TAAATCCACACTGAAGATCTGGAGTATGGGGGGATATAGGAATTTTCAGCATATGTATTAT[CT] TGAATAAATTTACAAAAGTGAACAGTTGGAAGGTACTTATAGGTAGACCTGAGGGTCTGTACC
WI-11305	87 C T A T C A C A C C A	CAGACACAGC ATCACACCA	GACCCTCCCGT GGGC	ATACTGGTTTATCCCATGTAATGTAGTTTACAAAGGAAAGGACAAAGTACCTTTGTATAGAATAT ACAGACACAGCATCACACCA[CT]AGGGCCCCACGGGAGGTCGGGGAGACGACACTTTTCCCTGGG AAAGG
WI-11321	67 A G T T T T	GGGAGGAAAA TCCAATAAAT	CATTGGGGAAT AGCTAAACCTT	ATTTTATATGAAGGTTTTCTGGTGAATCTTTTAAGCAGGGAGGAAAAATCCAAATAATTTTTTAA[ A/G]AAGGTTTAGCTATTTCCCAATGCTATTTAATACAATGAGGTTAGGACGTTAAGTCTTATCAGA CTGTGTAAGGAGGCCCCG
WI-11324	40 C G T G T G C C C C A	GGATAAATCA TGTGCCCA	ATCAAGCTTTG GGCTCT	AGCATACTGCATCTCCTTTATGGATAAATCATGTGCCCCA[CT]GAGAGCCCCCAAGCTTGTATGACAT TCTGTAAGTTACACAAATGTATCTGAAGAAGTTATCTGTTCTTGTCC



WI-11352a	69	T C G	AGCAGCAGC ATAGTGGAAA	GACCTCTCGTA GGACACTTAGC	TGACACATGGTTCTGTTTCCAGAAAGGAGAGAGTGCATCTACATAAGCACAGCACATAGTGGAA AGT[C]GCTAAGTGTCTACGAGAGGTCAGATCATATCCATAGAAAACAGCTCTCTTTACTTGA CACTTA
WI-11371	84	C T G	CAGCTGGAG ATTCTGATTCA	GCCCCGCTGA GCAC	TTAGCCCATGCTGTCAATTTGCAATCACCTGTGAAACCTATGAAACATATACCTGCCAGGCTCAGCTT GGAGATTCTGATTGAG[C]TGTGCTCAGGCGGGCTGGACATCCATGTTTGGGAAGAGTTGGCGGGGT GATTCGATGCGTATAT
WI-11385	75	T C G	ACAGAAGACT TTCATATTCCT	GATTCTATTCT AGTCATGGTCA	CTTAAAGCATTATAGTTTGGCCTGATGGTGGACACAGAAAGACTTTCATATTTGTTTTTAAAGTC TCTCAGT[C]AGGAAAAAAGCTACAGATTTAAAAAATATGACCATGACTAGAAATAGAATCAGC
WI-11388	88	C A A	TGTTGAAAT ACACGTAAC	TGCCTTGTATC CAAGTTAAAT	TCATGTGCCAGTTAGCTCAGTTGGTTAGAGTGGAGCTCATAAAAAATTAAGAATGAATGTTTG AAATTACACGTAACCTAAGTTC[C]A]TATAAATTTAACTGGATACAAAGGCAATGTTATGCTAAT
WI-11392	55	T G A	GGTATGTT CTTGAACCTTA	GTACATTCACG TGTTTTGTAAA	TTCTATCATCCATTAAATGGGCGAGTTATGTGTTCTTGAACCTTAAATAAATAC[T/G]CTTTTTACA AAACACGTGAATGACTTTCTTGTGAGAAGGGGAACACTGAGTCTCCGCTCTAGATCCCAATTAACGT CATACTCTTCCCCAGA
WI-11396	52	A T T	TTTGTGTTTTG AAATGGTGT	AGCTTATTTTC ATATTCACCCA	AAAGAAATAGATGGCATTGTTGAGTTAAATTTGTTTTGAAATGGTGT[T]AT]GATGGGTGAATA TGAAAAAAGCTTACCTCATCCACTCTAAAGGTTAGTGGTATTTTGAACCGTTGTCAAT
WI-11441	100	C A C	TCCCCACCAAC CAGC	TGCCAGGGCCT TATTTG	CTGTGAGCTTTTCCCACTAAACCGTGAGTCCAGTATGCTGGCAGCACGCTGCTGTTCTTGGTG TATTTCCATTACTGAATCCCCACCACCAACGAG[C]A]CAAAATAGGCCCTGGCACAAAAGTAAAGCTCC ATTTTGTAGAATGAAT
WI-11466	26	C T T	TGAGAAGCCA TTTATTTTGCA	GTTTATTGTTA TAAAAATGAC	ACTTTGAGAAGCCATTATTTTGCAG[C]T]CTTCAGTCCAAAAAAGTCAACATTTTCAGAAATTTTT TATATAAGTTGTAGGTCAATTTTATAACAATAAACTTTCTATTATCTATCTCTCACATACATTT CATGTATCCTG
WI-13364	35	A G	---	---	TTTTCTTTTGTGCTCTTTTTTTTAGTAGAAGC[A]G]GGAACAGTTGTCAATACTACCTTCTGTGG TCCCCTGTTAGACAACATACCTTTCTTTTGAATGTAAAATGTCA
WI-11276	41	A G	GGCAGCCAGG AGCAGAC	TGTACTGAGGA GCGGTG	AGGCAACACTGCTTTATTAGCCCGGGCAGCCAGGAGCAGAC[A]G]CACCGGCTCCTCAGTACACATT CCCCACCCCTGCTCGGTGCTCCCCACTCAGGGCTGGGCATGGAGGGGGGCGGTAGGTCTGGAA
WI-12210	76	A G A	ACTGGGAAAA CAACTATTGC	TGCTAGTTTGC ATATGTTTTCC	ATTGGAACAACATTAAATTTGTCATCTCTACATATAGAAAGCTGCTTTGAATAACTGGGAAAAACAA CTATTGCAT[A]G]GGAACAACATATGCAAACTAGCATCATTTGCTCTAGA
WI-14186b	88	A G	---	---	AATGCTCTGTTTTATTGAGAAGCTGTTGGTCAATTTGATGGAAAGACACATACGGTACAAAATTACA GGTGGTTTAGTTCAATTACATG[A]G]TACAAATCATTAGAGTCTTTTACAAGTCATTAGAGTCTTTGGAT TTT

WI-14186a	52 C T A	GGTCATTTGAT GGAAAGACAC	AACTAAACCA CCTGTAATTTT GTACC	AATGGTCTGGTTTATTGAGAAAGCTGTGGTCATTTGATGGAAAGACACATA[C/T]GGTACAAAAT ACAGGTGGTTAGTTTACATGATACAAATCATTAGAGTCTTTACAAGTCATTAGAGTCTTTGGAT TTT
WI-12234	66 A G	GAGAACACTT GTGGGCTT	GGACCTATCAG TCCATGTTTGA	ATTTTTTTGGCTATAGGTGCTCTAAACTTGAGCTTGCAAGAGAACACTTGTTGGGGCTT[A/ G]TTCAAACATGGACTGATAGGTCCACCCACAGATTCTAACTGGGTAGTCTGGGTG
WI-12345	37 C A	GTGGCAGGAA AAAGAGGAA	TTGCAGAGGG TTCAGG	GGAAACAGACCTGATCCACGTGGCAGGAAAGAGGAA[C/A]CCTGAACCCCTCTGCAAGTATTCTCT TTCCTGACCAGCTGGGCTTGCGCACTTTGTGAGATTTGCAAAA
WI-13416	71 C A A A A	AAATTTTGG AAGTTTTTCAG	AGTGTATTAG TTCAATGAATA ATTTCAA	GAAAAGGCTGTAATTTTATTTTCAAATTTTGGAAAGTTTTTTCAGAAAAAATAAAATGACAAGAACA CATA[C/A]AAATATTGAAATTTTCAATTTGAACATAAACACTTAGCAGAGGAAGGACTTTTGTGAT
WI-12310	46 G A	TTATCCCAAG TATAATTTTA AAAAGC	TGTTTTAAATAT GTTTGGTCT AAA	TTTGAAAAGATGCTGAATTTATCCCAAGTATAATTTTAAAAAGCT[G/A]TTTAGACCCCAACATA TTTAAACATCTCTTACACATACAGAATTTTCAGTTTACAAATATCCAGAAAGGCAATTTCTTAAAGCAG T
WI-12086	72 C T	CCGGGAAAC TTGGATT	GGAGTCTCGG GTCITGG	GAACCGAGCTTATTGGAGCAAAGAGTGGACACTGTTTACAACAAACGTTTCCGGGAAAACTTG GATT[C/T]C/AAGACCCGGAAGACTCTCCAAGTTCTCACTGTTAGTAAGGTCAATTTGGGGGCAGA ACAGGAACATGCCTTAGCT
WI-11549	102 T G	GGCATAAAGT TCATAATATTC TTTTATG	GGAAAGTCTGT ACAAATCCCC	ATGTCTTCACAGGTGTAATTTTGTAAAGAGTTTGTCTATCTAAATTTTCATATTTATGGCATAAAGT TCATAATATCTTTTATGATCTTTTAAATATCTG[T/G]GGGGATTTGTACAGACTTTTCCTC
WI-11585	79 T C	TGGTTTGCAA AAACAAAA	CCATGCTTCAC TGATACTCC	TTAGAAGGAAAGAAATAAAACACGGTAATGGGAAATCAGTTACAGAGGTAGGAAGGAGCTGGGTT TGCAAAACAAAAA[T/C]GGAAGTATCAGTGAAGCATGGCCTAGAAAGTCCAAGAGCAGGGGTAGAGT TT
WI-11604	68 G C	---	---	TTAGTTGGTTTCTCGAAACTTTATGCTGTTTATTTTAAACCAATAGGATGTTCCAGTTACCAGCATTT G/CJAGAACTAGGGACTTTCCATGAAAAATAATTAAGAGCTAAGGAATTTGACGCTCACCATTTC TTTGTACTCTGCAGTT
WI-11614c	108 C A	---	---	CAAAATCAAAAAATTGAGGAGGCAAGAACAGAAAGTAAATCCAGAAAGACTCAGCTGCTTG[A/G]GG GTTCCACCCCTGGACTTGCCAACTTCACTGTGAAACTGCAA[C/A]ATATTAAAGTATTCGTCAGCTAC GGACTTCGT
WI-11614a	60 A G	CCAGAAGACT CAGCTGCTTG	AGGGTGGGAAC ATGCC	CAAAATCAAAAAATTGAGGAGGCAAGAACAGAAAGTAAATCCAGAAAGACTCAGCTGCTTG[A/G]GG CATGTTCCACCCCTGGACTTGCCAACTTTCACTGTGAAACTGCAACATAATTAAGTATTCGTCAGCTAC GGACTTCGT
WI-11626b	83 T C	---	---	TTGATTTTACTAAGGTCTCCACTGGAACATGAAGGTAGGGATAAGTGTACAGGATAATATACTCAG ATATTTTAAAAATAAA[T/C]TACTTAATAATAAGAAATTAGCCATACCACATTTGTTCCATTGCTAC AAGAACAAATTGGCAATGA

WI-11626a	39 G A G	TCCACTGGAA CATGAAGGTA	GTGGTATGGCT AATTTCTTATT ATTAAGT	TTGATTTTACTAAGGCTTCCACTGGAACATGAAGGTAG[G/A]GATAAGTGACAGGATAATATACT CAGATATTTTAAATAAATACTTAATAATAAGAAATTAGCCATACCACATTGTTCCATTGCTAC AAGAACAATGGCAATGA
WI-11627	23 T C A T T G C C T C	CCTTTCCCTCC CATTGCAACC CATCTCAAG	CAITTTGCAACC CATCTCAAG	ACCCCTTCCCTCCATTGCTCTC[T/C]CTTGAGATGGGTGCAATGGGAAGTAAAGCAAAAAGGG AGATGAGAAATACATGATGCCCTTTTGTCTGGCTTACTTCCATTGCAATGCAAGTCCATCCATG
WI-11636	61 A G T C C T	GGACTTAAAA AGATCTGCTTA AGATCTGCTTA	AGAACTTGGCT AAATAATTTTAT GTAACACT	TCAGAAATGTTGCAAGCAAAATACTATTTGTAAAGGTGGACTTAAAAAGATCTGCTTATCCT[A/G]TA TATCCACATAAECTAGTGTACATAAAATATTAGCAAGTTTCTGTGACAGGTGCTCAGTAAACAC TTTGACTCCTTTTTGGTA
WI-11537	119 C G T	ATTGCTCATCT TACTCTGACCA T	GACCCAGCAA AAAGAAATGAT T	GTACCATTTCTTATGGTGGCAATAAGCAAACTGTGAGTAAACGAGGGCAGCTGAATAAATTTACAG TATACAAATATTAGAGAAATATTATGTTGCAATTGCTCATCTTACTCTGACCAT[G/G]ATAATCATTTCTT TTTGCTGGTCCAGGAAC
WI-11654	37 G C C T G	GCCAAAAGAC TATTCAGCAA	GGCTCTCCAG GACAGTTT	AGTAGAACATCAGTGCCAAAAGACTATTTCAGCAACTG[G/C]JAAACTGTCTGGGAGAGCCACTCCAG AGCTATTTCTAAGACTTCTGTGGTGTTCATCTACTCTACAGAGTTCACACTCATATTTTCATATTTT ATTTTGGGTGTGGGT
WI-11656	28 G A A A	AATGATTTTAG AAGGAATGC	CAAGGCTTTGT CCTCAAGTAAA	ACCTGATTGATTTTAGAAGGAAGTCAA[G/A]CTTTACTTGAGGACAAAGCCTTGCCTGCAGTTGTTT AAAATGTCTGAAACAATCAGATTCAGCCTGGAT
WI-11680	55 T C ---	---	---	ACAGATACTTTTCCACGCAACATTTCTGAAATGAAAGCTTTGATCTCCCCCTTTT[C/T]TGATATAA GGCTGGGAAGGTGGTTGGCCAGACCGTACATCTTTT
WI-11696	47 T C A G G G A C A G	TTATCACAGC AGCCAAACCTT	GGCATTAGAGA AGCCAAACCTT	GTCCAAGAACAAGATACTTTGACATCTTTATCACAGCAGGGGACAGT[C/J]AAGTTGGCTTCTCTA ATGCCACCACATCTTGTTTTTCAGAACTTTCCACTTCGCC
WI-11702	69 C T C A G C A G	GAATAATACT GAAATAACCA T C A G C A G	AGAACAACCTT AAGCAAATTTAT ACTGAAA	TTACATGTGGTCAATGGTGACATACTTTCAATAATTAATAATCGAATAATACTGAAATAACCCACAGC AG[C/T]TTTCAGTATAATTTGCTTAAGTTGTTCTAGAAAACACTGCTAAATTTTGTTCCTGCAGA
WI-11706	60 C T T C T C T C T T	TGGCTGGAATT TTCTCTCTT	ATCACAAAAG AACAAATTCOA	TGCTGATTCATCGCTTCTACCATCTGGCTGGAATTTCTCTTCTGTACAATTTATTTGG[C/T]GGCTG GAATTTGTCTTTGGTGATTTGTCCCTTGTCTGCT
WI-11709	105 T A T T C A G T T T G C	AGAAGCTTGC TTCAGTTTGC	TCATTTCTCT AATTTTACGGG A	AATATCATCACTCATATCAGGCATGTTTATAAAAATGAGAGATTATGCTCTTTTGGCATACTTCATC TTCTTCAGGACACAGAGAGAAGCTTGTCTCAGTTTGC[T/A]GTCCCGTAAAAATTAGAAGAAATGAAT GGCCAGATGGATGGAAA
WI-11710	103 C A C A G T C T T C A	GCACCTAGCCT CAGTCTTCA	GTGTGGAGGAG GGAGGAG	TTATTACCATCAACCTGTCCCAAGCTTTCAGCACAAACAGCCAGCCACACTCTAGACACGCCCTTCAC TCCAGTCCATTCTGGCACCTAGCCTCAGTCTTCA[C/A]CTCTCTCCCTCCTCCACACACTCCTTC

WI-11715b	123 C T	AGGCTGGCTGC AGCTT	TCCCATCCTG TGGCT	AGAATGGAGCTGTTGGGGAGGACATGCACACAATGTAAAAACAGACAAAAATGCATTACAACCTGTGG TGTAATGTGGCCACTATGAATCCCTATGTATAAGAGGAAAGAGGCTGGCTGCAGCTTC/TAGCCAC AGGATGGGACTGGGAAGA
WI-11715a	49 A C AAA	GCACACAATG TAAACAGAC AAA	CATTACACCAC AGTTGTAATGC A	AGAATGGAGCTGTTGGGGAGGACATGCACACAATGTAAACAGACAAA/A/CJTGCATTACAACCTG TGGTGAATGTGGCCACTATGAATCCCTATGTATAAGAGGAAAGAGGCTGGCTGCAGCTTCAGCCAC AGGATGGGACTGGGAAGA
WI-11727	43 G C TCAACA	AACAATCCTT AAAACAATA	CCTGIGGTTTG TGTTGCAG	CTGGATTTCCCTATACCTAACATCCTTTAAACAACATATCAACA/G/CJCTGCAACACAAACCACAGGC AAATGAAAAACAGATGCCCCAGACAGACCCCCACCACATGGCACACAC
WI-11728	16 C G ---	ATCTGTGGTTT TCGCTG	---	TTTTATTTATCAAACTC/GJCAATTCATTTACAAAATGTAAAGTTATCATCAGCTCCCCCATCCACTTT CTCCCATCTTCTATCTCTTTCCACCCCTAGACTTTCTCTCCCTACAAACCCGGGTTCCAAA
WI-11758	61 A G TCGCTG	ATCTGTGGTTT TCGCTG	TGATTGGCCCT GTGGTCTA	TTTTCCCTCTTTTAAAGTCGCTATACCTAACTAGAGGAGAACTGTGTGGTTTCGCTG/A/GJTAG ACCACAGGGCCAATCACACAGCTTCTGTAGAGAACTGGAGAGTGCCAAAGATCACCATCA
WI-11295	37 A G AATATAA	GCCTCACAAA GTATTTCTAA	AAAAGTGCTCA TCTGTGAATC T	CCGGCCTCACAAAGTATTTCTAAATATAATTTGCTA/GJTAGAGTTACAGATGAGCACTTTTCA CATTAGGTGATATGCAACAAATCACTATTGGCTCAGCAGGAAACAGACTTTT
WI-11773	93 T C ---	GGCTCAGAGA GCAAGGGAA	---	AGCACATGATATCTGCCTGGAGTTTCTGTGAGCTCAGCAACAGCAGATCAGAGATTAAGAATT ATTTATTGCCTCTTTTTCCTCCCTC/GJGTGATTGTTAATTAGGGAGTCAAGGCCAAGTTATC
WI-11282	42 C G GCAAGGGAA	CCCAACTTACC AAACCTCTG	AAACTCAGA CTGTAAATTTT GTGTG	CATGACAAACCTCTTTTAAATGGGCTCAGAGCAAGGAA/CJ/CACACAAAAATTTACAGTCTGA GTTTGGGGCAGAGACCCCTCTCCACCTTTTTCATGCCTGTGTGTACACACACACTGTCCAAGCCTC AGA
WI-11790	28 A G AAACCTCTG	TCATCTAATCT GTGAGGTATTT	OGGTAGGCGAG GCTAAGC	TAATTCACCCAACTTACCAACCTCTGT/GJGCTTAGCCTCGCCTACCGTACACATGCTCAGAGCAC TTACATTAACTACAATGGGCAAAATCATCTAACACAAAGC
WI-11879	61 C A AGTATACA	GTGAGGTATTT AGTATACA	CTCTTCACTTT ATAAAAA	TTTTAATTCCTCAAGCTTACAACCATCTTTTCATCTAATCTGTGAGGTATTTAGTATACAG/C/AJAGT GATTTCTCTCTTCTCTTTTATAAAGTGAAGAGGTTCAACTATCCAGACAGTCCCATCTA
WI-12469b	91 C T AAGTTTAAA	GTTTTAAATGT GGTATTAGAA	CAATTTTCAGA TTGTCTATAGC AAAC	TTTACTAATTTCCATTCTCCCTCTTTTATAGTTTTTAAATGGTATTAGAAAAAGTTTAAATTACAT ATGTGGCTTATATTCTATTCTA/CJ/JTGTGACAGCACAGTTCTTCAAAGTTTGCTATAGACAATCTGA AAATGGGTTCTGAAT
WI-11906	52 A GATCTGAA	TGTTATAACAT CAAAGAAAGA	TTAATTTCTGC AGTCCCTCA	ACATTTGAGTAGGAATGACTTTGTGTTATAACATCAAAAGAAAGAAATCTGAAT/A/GJTGAGGGAACCTG CAGAAATTAACCTTTCAGTCTAATTTCTCAGAATGCCAGAGTAAGATGAACCCCTTTACAG

WI-11909	78 A G	TTTGTTGGG TGGTCAAG	CCTCCTGAG ATTTCTGAAT AG	GCAGTTCTCTGAAAGACAATGGATTGTGGAGCATACTGAAGACTATTCTAAATGGCTATTTGTGTTG GGTGGTCAAG[A/G]CTATTTCAGAAAATCTCAGAGGAGGACAAAATGATAGTCACTGCAGCCAGCTCG GACTGGCTTGCAAGAGTC
WI-11806	60 T G	CATGAAGAGT GGGCAGTTCA	TCCTGTAAAGC CAATTTTATAT ACTAATAA	AAAAATACCATTAGCATCAATTGCCCCAAAGTTGGCAGGCATGAAGAGTGGGCAGTTCA[T/G]GTT TTATTAGTATATAAAATTGGCTTTACAGGAAGCAATTATGG
WI-11946	31 C A ---		---	CCCTAGTGAATACAACCTTTGTCTGGAGAC[C/A]CCAGCTAGTCTAAGAAAACTTCTTAGGCTGAG CTCTCTGGGAATCTAAGATAAAGAACTGAGATCTCTGGGAAGAGGGAA
WI-11965	65 T G	TGAAGATCAG ATCTCTGGTTT GATT	CAGCTGTGGTG AATGTTGAT	ACAAAATTCACAGTACAACACTGCTTATTTCTTGCTTGAAGATCAGATCTCTGTTTATTTAA[T/ G]ATCAACATTACCACAGCTGAAGGAAATTAACCTGAACCT
WI-11027	90 T A A	TGCOCTACTAC GCTTTTAAAAA	TGAGGAAATGT GTTACAGTATT TTTATT	ACCTATTTGAAACTGCAGAAAGGGCAGGACAAAAACAATCACTTCATAGATTTTCTGGGAAATAT TGCCCTACTACGCTTTTAAAAA[T/A]AATAAAATACTGTAAACACATTTCCCTCATTTCTCTTACGA ATACCTCTCTTTTGATATTGCAAAATTTCTATGGCATACACAGAGGCACCTCCTCAATGCCCTG
WI-11049	95 C T ---		---	TTCTGCTGAAGATCACAAAACAATTTCAACCTCTGTGGTTCAAAAATAATTTAAGGATCTGTACCTTT GTGTTTATTTCTGTCTCAACTAAGGA[C/T]AGACTTCAGAAAGGCATAGCTCCCTTGTAACGTTTTT AAACATCTTTTTCATTTGTAGGAAGGAACATTTCAAAAGCCCAA
WI-15488	69 C T AC	AAAAGGACAG CCAGATATCA AC	TTTCCATCTTA TTTCATTTCTG TAAC	CAACATTTATCAAAACATGGTAGGAAAAGTTCTCACTCTGCACATAAAAAAGGACAGCCAGATATCA AC[C/T]GTTACAGAAATGAAATAAGATGGAATAATTTTAAACAAATTG
WI-13654	49 A G	AACAGTTAAT GAAACACATC CGT	GGCTGGTGAAA TGATGTCAT	TGCTCAATTTAATGTGATAATCTCCAACAGTTAATGAAACACATCCGTA[A/G]GTATGACATCATTT CACCAGCCAGCTACTTCATGTGGCAGAAAAGGTAACCTTTTCCCATTTTACAGACAAAAACCAGT
WI-11070b	135 C T ---		---	ATGAGACCCCTGCTTTGAACGTTAAACGTTTGGAAATAATGGAAAAGGAGCTAGGACAATCTTGCTT TCAAGTAAAAATTGTGACTGAGCAGAAAAATCAGCCAGCTATCTTGGGTGCAGAGAGGTACTCCAAGTA C[C/T]GTGGGGTTCTGATGACTTCCACGGTCACTGGGGATCCAACAGAAGGGAA
WI-11070a	110 G T T	CAGAAAATCA GCCAGCTATCT	TGGAGTACCT CTCTGCACC	ATGAGACCCCTGCTTTGAACGTTAAACGTTTGGAAATAATGAAAAGGAGCTAGGACAATCTTGCTT TCAAGTAAAAATTGTGACTGAGCAGAAAAATCAGCCAGCTATCTT[G/T]GGTGCAGAGAGGTACTCCAA GTACCGTGGGGTTCTGATGACTTCCACGGTCACTGGGGATCCAACAGAAGGGAA
WI-12020	121 T C ---		---	AATCTTTTATATTTCCAGCTGTTGAGACAGTATTTTGGGGGCTGATGTTACCTCTAGCGGCGAAACC AGAGCCAGCTATTAAAGCAGCCAGAAAGCTACAGTAA TTGAATACATGACCATT[T/C]CTCTTTTAGC ACGTTCTTTGTTCTCCTC

WI-11076b	142 G A ---			---	CATGGTTCTGCCAGCTTACAGGAAGCATGGTCTGGCATCGGCTTATCTCTTGGAGGCCTCAGGAA ACTCTGAATTATGGCAGTAGGCAAGGGGAGCAGGCGATGTACATACCCAGAGCAGGAGAGAG AAAGAGAG[G/A]AAGTGCCACACATTTTAAATGATGAGTTCTCTCAAGGAACCTCACTCACTGTCAT G
WI-11076a	106 T C AGCA	AAGGGGAGC	TCCTGCTCTGG	GTATGTGAC	CATGGTTCTGCCAGCTTACAGGAAGCATGGTCTGGCATCGGCTTATCTCTTGGAGGCCTCAGGAA ACTCTGAATTATGGCAGTAGGCAAGGGGAGCAGGCGATGTCTACATACCCAGAGCAGGAGAGA GAGAAAGAGAGGAAGTGCCACACATTTTAAATGATGAGTTCTCTCAAGGAACCTCACTCACTGTCAT G
WI-14263	49 T C GGCATATTCA	CGCAGAAAAA	AATTAGTATGG	GGTATTCAAA	ACCTTTAAAGTTTCTCCCCACCTACTCCCCGAGAAAAAGGCATATTCAA[T/C]TGTCCTCATACTAATT TTTGAATAACCTAACTCTCCCTTTGTTTCTACTAAGAGAGGTTCTTTTGGCTACAAGTAACA
WI-14267	28 T C ---			---	AATTATTGCTGAAATTAGGAAGGAGCA[T/C]TGAATGGGAAGGGGAGGTTAGAGAAGACAGAG ATTTAAAGAAAGCAAGTACCATTTCCTCAAGTATAAACTCGTA
WI-13892	50 G A TAGAAC	CTTTTCATTT	TGATGATGTC	ATCAAAAG	GATTTGTTTATTCTATCTCGCTTTTCTATTTTAAATAGAACA[G/A]CTTTGATTTTAGTA TATGACATCATCATGAATTTTCTCTTACTTTGTTAGGCTCCACCTCAGTAGTTTGACAA AGGTAGAATGAGTTCA
WI-15288	108 C G TCCCTCTCTC	CATGAGAGGA	AAAAGCTTCTT	TCCCTTGGA	ACCTCTTTCTGATGACACTGTACCTGTAGGGGCTAGAGAGAAAGAGTAGTAGCTCTTCTTGGC TACAAATTCAGGATGCAGGGCATGAGAGGATTCCCTCTC[T/C]TCCAAAGGAAAGAGCTTTTGGC
WI-13951b	88 G C ---			---	AATAAATGGAAGAGGAGTGAACAAAGTAATGAACAAA[C/T]JAGACCCCGATCAGAGGAAGAG ATGGCTTCTTGTTAATTCTGGAGCAGATTCAAGCAGCAAAATTTTACTGAACACTTGCTATGTGCTG G
WI-13951a	39 C T CAAA	GGAGTGAACA	TTCCTCTGATC	TGGGGTCT	AATAAATGGAAGAGGAGTGAACAAAGTAATGAACAAA[C/T]JAGACCCCGATCAGAGGAAGAG ATGGCTTCTTGTTAATTCTGGAGCAGATTCAAGCAGCAAAATTTTACTGAACACTTGCTATGTGCTG G
WI-13264	25 G A TTGCCCAT	AAAAAGGCTC	GGAGGGAGAG	ACGGGAATA	GAGACCAAAAAAGGCTCTTGCCCAT[G/A]TATCCCGTCTCTCCCTCTGACTGACCCCGAGTGTCTT ACAATGAACATCCCTCAGCCCCATGGCATGGTGATCCCTCTCTTGGGATCTGTGAATATAACCA ACTGTCTTGCAATGGC
WI-13960	39 A C TGATAGA	AGCAAAAGGA	CATGAAAGGA	CAAAATTTGCAT	TTATTTGTCATTAGCAAAAGGAAGTTAAATACTGATAGA[A/C]GATGCAAAATTTGTCTTTTCATGCA TTTGTGGAGCAAGTACTAATCTGTCTGTCATTTCCCTCACAAGGAGTTGAGCCCCCTAGATGAC C
WI-15843	62 C T CAG	ATCTTATAACC	CTCTGGCTCAG	ACTTGCTCT	AACTCTTTATTGTTAGCTAGCCCCAGTGACTTTATGATCTTATAACCAAGAGCCCTTCA[C/T]JAG AGCAAGTCTGAGCCAGAGGTTTATCACACTTTGTCTCTAGGCTCCACCGAAGCCAGGCTTGGCT

WI-13983	52 G A	TCTCTCCACT CCTTAAACCT	CAATACTCTCT TAGCCCAGTGG	TTGTGTATCTGATTCCGAAACATAGAAATCTCTCTCCACTCCTTAAACCT[G/A]CCACTGGGCTAA GAGAGTATTGTACAGAAATATGCACTCACTGACTTAACAGAAATTAGAACATCCAGGCACTCACTGAGA
WI-13850	51 A G TT	AATCTCAGGG TCACAGCTTTA	TGTTCCCTGAC AATGTTTGTA	CATGAATCTCAGGGTCACAGCTTTATTTATAGATTTTTAACACAGCCAT[G/J]TTACAAACATTGT CAGGGAACATTTACAAATAAATAAGATGGACTTGCAGGTGTAAGAAATTACACTTCA
WI-15295	27 G C A	TGTCAGTTTGA ATGTATTCTCTG	TGAATAGTTGG CAAAGGAAAA	AGATGTCAGTTTGAATGTATTCTCTGAT[G/C]TTTCCCTTTGCCAACTATTCAATTATGACCATCTTTTC CTCGTCAAGTGACCTGCCATCATCAAGAAAAAGGCCCGAAAAATATGAGTGAGACTCA
WI-14284	55 C T ---		---	ATTTCAAAACAAATCCAGAACAGGTTCTCACACTTTGAGCCTTTAGTGCAAAAAACA[C/T]TATGCCAT GCGGGAATAAAATGCTTATCCAGTGGAGCGCTCCCTGATGCAATTGA
WI-14288	85 G C CCCAGAT	CCGCTGCTATT CCCAGAT	GGTCTCTCTCC ACCAAATCTT	ATGACCAGACCAGAACGCCCTGTCTATATGAAGACAAACAGGTGGCCATACTTGGGTGGAGGGATA CCGCTGCTATTCCAGAT[G/C]AAGATTGGTGAAGGAGACCATGACAGATGACAAACGG
WI-13522	33 C T ACAAC	TGATGTAGTTA CCCCACTAAT	CATAATATTGG AAGTCAGTGGT	TTTATTTTGATGTAGTTACCCCACTAATACAAC[C/T]GAGAACCCTGACTTCAAATATTATGAGAG AAAATTACTCCAGGGAATTTTGCAGAGAAATAATA
WI-13529	42 T C TTACCA	CACAAACATT TATTGAACAG	TCTATACACTT CTCACTCTCTT	AAATATGATTCCATTCCACAACATTATTGAACAGTTACCA[T/C]AAGCAAGAGAGTGAGAAAGTGT ATAGAGGTGATTTAAGAGTGGTCCCTGTCTCGAGGGTTTATAGTCTAACAGGGGAACAACCTCTC A
WI-13859	84 G A ---		---	TTATTTGTCAGAAATTCAGAAATCAGAGTCTCTACTGGGCAAGTAGAAAAATAGAAAAAGTTTACTAC TTTGAAAAGGAAACTAT[G/A]JACAAACAAGTATATATTGAGGAAAGGGACTCCTAGAACTTGAGCA ACA
WI-13536	29 T C ---		---	TGAAAGGATACAGAAAAAACTCAGCGAAG[T/C]GAAAAAGGTGGATAGCGTGGAGTAGAGAGAAAT TAAGCACCGCTTCCAGTTGTCTCTCTCCAGTGCCATTACATGGAGTACACTTAATTTTCTCAGCA
WI-13373	52 G A ---		---	TTTTATTGTTGGTAGAAAAACAGGGCTTTAACACTGAATAAACATCTCAC[G/A]AACTGTCGCTC CTAGATTACAAAAAGTCAAAACCAATTTCCCTTTGAGCGCGGCCCTTGAATCTGACATTCAAGTCAC CGTAATAGAAACCAGAGCT
WI-13477b	61 A G ---		---	TTGGTTTTTAATACCTCTTGTGGATAAAAGGACATTGTTTTTCATTAGCTTGTCTTCAA[A/G]GAC AGAGAAATAAGATAAAATACCTTAAAGAAATTAATAGAAAAATTAAGGAACATGTACCAAGGTGG TTTTAGACTCTCCTCAGTT
WI-13477a	32 A G AAGG	TTAATACCTCT TGTTGGATAA	GAAGACAAGC TAATGAAAAA	TTGGTTTTTAATACCTCTTGTGGATAAAAGG[A/G]CATTGTTTTTCATTAGCTTGTCTTCAAAGAC AGAGAAATAAGATAAAATACCTTAAAGAAATTAATAGAAAAATTAAGGAACATGTACCAAGGTGG TTTTAGACTCTCCTCAGTT



WI-14297	86 A T G	AATGTTGGGT ACTTTTTCCAA	TGTGCACATTG AGAAACATTTT	CTGACTTTATTTAGCATGCAATGCAATTTATTCTGGCAATAAATTAATATATGTGCAGTTATAAAAAAT GTTGGGTACTTTTTCCAAAG[AT]AAAAATGTTTCTGAATGTGCACACTAGAATATATGCAGAAATCCTTT AAACAGTCGACT
WI-12229	89 T G AAA	CATGTGCACA AAAAGAGTAA	ACATGTGAATT GTCCCAAAA	TCCATGTAATAATTCTCAACAGAGAACACTATCTTTAAATGAAGGATTTACCATTAAGAAATCAACA TGTGCACAAAAGAGTAAAAAT[AT]GACCAAAAAAATAAGATTTTTTTGGGACAAATTCACATGTTT AAAAAT
WI-13582	43 C A A G A C T G G G A	TGCAATCTAG	TCTGGCGAGTT AGATTCCA	AAGGTGCCCCCTTACTGGACCAATGCAATCTAGAGACTGGGA[C/A]TGGAATCTAACTGCGCAGAG AAATCAAAAGACCGATGGTGTGAATCTGGGGCAGCTTCAAAAATTTCTGCCTCCTAAAAACATTTTCAC CCAATTTTTCATTATTGCC
WI-13857	28 A G ---		---	CTGAGTTGATAAAAATGCTTTTCTGAAC[A/G]TACATTTTAGGTATCTGGCACAATTAACCAAATGT CTGCCATTTTGTGTAGCTTTCATACAGTACAGATTTCATTGATGTGCTGCCACATCTG
WI-15809	77 T G T G T A A T G C C	TGGTTTCTGT TGTAATGCC	TAAGGTAGCTA ATTCAATGTTT GTAAA	GTTTAAAGTTGCAGAGATGTGAATGGTTTACAAATCTGAAGCTGAAGTTCAATCTTTGGTTTCTGTT GTAAATGCC[AT/G]TTTACAAACATTGAATTAGCTACCTTAAGTATTGAAGAGCTTCCATT
WI-15892	123 A T ---		---	TTAATCAGTCTGTGTCAAGAAGAAACAGGACTTGATCAAGCTTCCAGCCCTCACACTCTATCAGCA TAGCAATTTTAAGGATCAGAGCTTTGTTTACATTTTGCTAAACCAAGAGAAGAA[A/T]GGGAATCA ACTCCACAGATCAACATGT
WI-15801b	81 T G A A	CATACTCCACT CTAGCTGCAGT	AGAAGAGTGG ATGGGATGC	TCCTTTATTTCCAAGAATGGGAAGCGCATTTTCATTGGCTTGAATGAGAAAGCTTCATACTCCACTTA GCTGCAGTAATAC[AT/G]GCAATCCCCTCCACTCTCTCTCTCTTTTGAAGTAACTCTTCAAAAGAACT GCTGAATGTCTCTCTC
WI-15801a	24 G A A A T G G G A A G C	TTTATTCCAAG AATGGGAAGC	TCATTCAAGCC AATGAAAATG	TCCTTTATTTCCAAGAATGGGAAGC[G/A]CATTTTTCATTGGCTTGAATGAGAAAGCTTCATACTCCACT CTAGCTGCAGTAATACTGCATCCCCTCCACTCTCTCTCTCTTTTGAAGTAACTCTTCAAAAGAACT GCTGAATGTCTCTCTC
WI-13763	59 T C G C A G T G A T	GGCTGGACACT	CCCACACCTGC CCTT	GCTCGTAATGAGACAGAACGCTACAATCTGTTCAACACTGGGCTGGACACTGCAGTGAT[AT/C]JAGGG GCAGGTGTGGGCGAGGTGGGGCTCTGAGCCGAGGACAAATGTCCATGGCAGAGCTTCCAGAA
WI-13578	48 T A A C C	TCAATAAAGA GCAGAAAGAA	CAGTGTGAAG AACATCTTTT GTC	TTTTTTTTTGGTGAGTGTTTGTCTTCAATAAAGAGCAGAAAAGAAAACC[AT]AAGACAAAAAGATGTT CTTACACACTGAGCTTTACACAGTCCCAACATGATATTTTCCCGAGGGGCAAAAAGA GAGTCTTCCCAGAAACCTC
WI-13789	62 G A A G G G A G	TGGATGGCTG	CAGTGGCTTC CTCTGTC	TCCAAGGAAAAAGAAAACCAATCAGTGAGAAAACCTCAAGAATTGGATGGCTGAGGGAG[G/A] GAACAGAGGAAGCGCACTGGGGCTGGGACTGAATATGGACAGTGGATGGTAGGCTCCTCCTCCTCTT GAGGTCCCT
WI-13594	66 G A A G C	TTTTTAACACA GATCACAAAA	CCTTTGCGCCA GTACTTTTT	AATAACAAGTTTAAGTTTCGAGCTGCAATGTTGGCAATGCAGGTTTTTAACACAGATCACAAAAAGC[ G/AT]GCACAAAAAAGTACTGGCGCAAGGACAAAAAATAATGCTAAGAATTAGGCCAAACAGCTGC



WI-15625	40 C T ---	---	GTTTCTCCCACTACTCCCGCAGAAAAAGGCATATTCAA[C/T]GTGCCATACATAATTTTGAATAA CCTAACTCTCCCTTTGTTTCTACTAAGAGAGGTTTCTTTTGGCTACAAGTAACA
WI-13367	84 C G A	CCCT	GTCTCATTCTTGTCTAGGCTGTAAATTTTCAGTTTAAACAAGTTCTTATGTGATTTGTGGCCACACT GAAGACTCACCAGAA[C/G]AGGGTGGGTGGGAATACTTAATCAATAATTTGTGGAATTTACCCGAT GAAATCCAGTTATTCTCT
WI-13600	26 G T	TGATGG	CTCACTTTAATGAGCCAAGCATCCAT[G/T]CCATCATCTAGTAACAAATTTCAATATGCACATTATAT TATACTGGAAACAAAGAAATACGGATTGTGTAGGGAAGAGCATAGAGGACCACCATCAGCAACCCCTCT TGATTCCTTCTCTACCC
WI-13602	89 G T	ATATTAAAT	GATAGGAAAAGAAGAAATGAAGTCAATAGTCTTTAGCAAGCCAACTAGCTCAAGGAATAGACAGCCC CTTCCATTCTGGAGACAACACA[G/T]AAATCTATTAAATATTAAATATTGTATGAGGTATGCACCT GCCC
WI-13650	76 A T	GTTTT	GCATTAAACATTAAAAATCTGAGGGATATTGATGAGAACTATGATGAAAGATTCAATAATTTTCAC TTTTAAAC[A/T]TAAAAAATACTCTCTCATATCCTAGCCTGATGACTTAAAAAGTTACCGG
WI-14319	83 C T A	TG	TGTTTGTATTGAAGAAAACATCTCTAAAAATACCATCTGAGTGAAGATAAAAAAGGAAATAGCAATT CAAGGCACAAAGCTAAG[C/T]ACATGCAACAATATAGATGATTGGGGTGGGACAGTACAGAATT
WI-13528	80 A G AAAA	AA	ATTGGATACATGCTTTTAAAAATGGTAGCTTTTAACTGTATCAATACATTTTGCATTTTCCCTAAAA AAAGAAGACATTT[A/G]TTACAGAGAAAACCTGTGGTATCATGCAGGAAAAGCAGAAAAAAATTT
WI-13909c	93 A T ---	---	ACTTAACTGGCTTATCTTCACGGTAATCTATCTGTATTTCCAGTGAAGTTTCATCTTCCCTCACACT CTCTCAAACCTCGAATATCTTTTTCATGAGATGCTAGTGTCTAGTACCCACTGCAACATCTCTCAA
WI-13909b	80 G A C	CTC	ACTTAACTGGCTTATCTTCACGGTAATCTATCTGTATTTCCAGTGAAGTTTCATCTTCCCTCACACT CTCTCAAACCT[C/G]AATATCTTTTCAGAGATGCTAGTGTCTAGTACCCACTGCAACATCTCTCAA
WI-14323b	86 C A ---	---	TTTTTATTGAATTCCAAATGTAGCAAAATCATTAAACAAAATTATAAAAGGGACAGAAAAATTAAG AATCAACATCATCTCGAC[C/A]ATGGGAACCTTGAAAAGGCATGGCAGTGGAGACCAGTAACATA
WI-14323a	78 T C ACATCA	GTTCCCAT	TTTTTATTGAATTCCAAATGTAGCAAAATCATTAAACAAAATTATAAAAGGGACAGAAAAATTAAG AATCAACATCATCTCGAC[C/T]CTGGACCATGGGAACCTTGAAAAGGCATGGCAGTGGAGACCAGTAACATA
WI-15389b	104 G A AAA	TCCCACACTT	AAAAATTGACAAATCAACTAGCTTGTCTTTTGTGCTTTTGGAGACTACCATTTTCAAAATTTATTATGT AATACACTCAATCCAGATAATGAACATCTCGGAAAAA[G/A]AAGTGTGGGAATCACCTCATCTGTGC

WI-15389a	33 G A TC	AATCAACTAG CTTGCTTTTG	TTTGAATAATG GTAGTCTTCCA AA	AAAAATTGACAAATCAACTAGCTTGGCTTTTGTCTG[A/J]TTTGGAAAGACTACCATTTATTCAAATTTATT ATGTAATACACTCATCCAGATAATGAACATCTGCGAAAAGAGTGGGAATCACCTCATCTGTGC TGTAATCTGCTTACAGTCCCTTGGCAAAGACAGACATATGTTTTGCATAAAGATATAAAATTCCTTCAT TTTAAACTAAATTAGTGTCTT[C/J]TTAAATATATGAACTTTTGGTGAATATGAACCTGTACCAAAG C
WI-15747	88 T C AGTGTT	TGCTTCATTT AAACTAAATTT	CATAATTCACC AAAAGTTCATA TAATTT	AAGAAAAGCACATACATTTCCAGAAATTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTGCGATGAGTTCTTCTCGTTAAGTCTGGATATAC[T/G]GGCTTGCACCGACACCTTTTACG GAGGATTCGGGACAAC
WI-13752b	117 C T ---		---	AAGAAAAGCACATACATTTCCAGAAATTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTGCGATGAGTTCTTCTCGTTAAGTCTGGATATAC[T/G]GGCTTGCACCGACACCTTTTACG GAGGATTCGGGACAAC
WI-13752a	106 T C AGTGTGA	CCCTCTCGTTA AGTGTCC	CCCTCCGTAAA AGTGTCC	AAGAAAAGCACATACATTTCCAGAAATTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTGCGATGAGTTCTTCTCGTTAAGTCTGGATATAC[T/G]GGCTTGCACCGACACCTTTTACG GAGGATTCGGGACAAC
WI-14339	102 T G TTAC	CCCAATCAAA CAGTACATGA	TCCAGATTTCT GGAAACCG	AATCATTTAATGAATGTTCCAAACACACCCCTTCACTGGGTACAGGTAAATTTCACTGGGATGGAAG CAGATGAACACCCCAATCAACACAGTACATGATTACT[G/CGGTTTCCAGAAAATCTGGATAC
WI-13744	115 C T AAACTGAA	TGGTGTGAAC	AATCAGGAAA GATAAGCACA GC	TGGATGGATGGATGAGGCCACCTGTGTTCAACAAAACACAGTAAATGGAATTCATGCAGCTTTAGAT TTCCCTTGGCCAGCTAGGAGCTTGTGTATGGTGTGAACAAAACCTGAA[C/T]GCTGTGCTTATCTTTC CTGATTCT
WI-14061	68 C T ---		---	CCTTGACTATATTGTTTTTCCAAAATAGGACTATGTGTAGAAGAGAGCCCCCGTACATACCTTAT [C/T]AACCATTTCAATCCACCATTTGTAAAATCTCATCTCTGGGTCTGGATACTCAAAAACAGAT
WI-15719	69 A C CATTACG	ACCTTTTCATC CATTACG	TGATACTGGC AAGAGTTTAA ATT	TTACAGTTGGATTAAACACTACCACACTGAATATCTGAATTAACCTATTCAACCTTTTCATCCATTGAG C[A/C]AATTTAAAACCTCTGCCAAGTATCATGAACCTTACGAAGAGGAGATAAGAGATCTGATC
WI-13810	106 T C AACTT	CTCTAAATCG ATACATCCAA	GAACTGATGCT TGCTGCTAACT	TAATCCATCAATCTAAAATCAGACATAGATCAAAACAGAAAGTACCACAGTATGCTTTATTTTGA GGTATTAAATGGTCTCTAAATCGATACATCCAAAACCTT[C/J]AGTTAGCAGCAAGCATCAGTTCTTC
WI-15736a	27 G T CACA	ATTTTATTCAC ATTAAACTTG	GTTCTTTGATA TGTGGCTTAGT TTT	GGATTTTATTCACATTAACTTGCACA[G/T]TAGCAAAAAAATCAAAAACATAAAAACTAAGCCACA TATCAAGAACAATATACAATAGAGATTTGAAATTTCTCAATAGCATTTGGAAGGTATTTCCATAAATA TCAAACTGCACACTATAAAAGTGTCTTTAAATGCAGCAGCAGGAGATGTGAAGACACAAAATGAAC AAGTGC[G/A]TAGTGACACATAGCTGTCAACACAGTG
WI-13785d	72 G A ---		---	TCAAACTGCACACTATAAAAGTGTCTTTAAATGCAGCAGCAGGAGATGTGAAGAC[A/C]CAAAATG AACAAAGTGGTAGTGACACATAGCTGTCAACACAGTG
WI-13785c	56 A C ---		---	

WI-13785b	40 C G ---	---	---	TCAAACTGCACACTATAAAAGTGCTTTAAATGCAGCAG[C/G]AGGAGATGTGAAGACACAAATG AACAAAGTCGTAGTGACACATAGCTGTCACACACAGTG
WI-13785a	27 T C TGCT	AAACTGCAC ACTATAAAG	TGTTGTGACAG CTATGTGCAC T	TCAAACTGCACACTATAAAAGTGCTT[C/J]AAATGCAGCAGCAGGAGATGTGAAGACACAAATG AACAAAGTCGTAGTGACACATAGCTGTCACAAACACAGTG
WI-13793	88 C G ATAGG	GGATTTTACAT TCAGCCTAGAT	GGGCAGGAGGA TTTGTTACT	AGAAACCAAGTATATCATAGGCAAAATAAAATAGTTTTACCCCAATTGATACAACATAAGGGATTT TACATTGAGCCTAGATATAGG[C/G]AGTAACAAATCCTCTGCCATAAAATCTATGACTTG
WI-13794	52 A G TTCTTTCTC	TTCTCACCCCT	AGAATGGGCTC TTAACCTTGTA	TAGTCTCCTACAAATCCTTCAATCCATTTCTCTCCACCCCTTTCTTCTC[J/G]TACAAGGTTAAGA GCCCATTTCTTCAAAACAACAAAAACAACATAGAGCAAT
WI-15729	35 A G GTGTAGACTGC	CTTTGAACCAT	CTCAGCTTCTT TCTAAAGTGCC	TCATTTAAGTGACCTTTGAACCATGTGTAGACTGC[J/G]GGCACCTTTAGAAAAGAGCTGAGACTGAA AAGTCTGTCTTGACTTCCAAGGAAGGGTAAGTCCCTGTTTGAGCCCCGGGCTGCTCATTTGTTA
WI-13424	66 G A C	TGAGGTTTTTC ACCTATTCTT	TTTTCTCCCC AGGGTCTA	GTCCCTTGCACAAAGCTCCCAACTGGTTTGGAGTTTCCCTTCTGAGGTTTTTCCCTATTCTTC[G/A] JTAGACCCCTGGGAGAAAAACACATGTGTAAAGTGGCTCAGGACATGAGGCAGGCCGTTTCAACAAGAT GCTGGCTAAGCGGCTTC
WI-14065	29 T C AATT	TCTTATAAAA GGTCAGAGGC	CAAGCTGAATC TGGGATCTC	AACTGTCTTATAAAAGGTCAGAGGCAATTT[C/J]GAGATCCCAGATTGAGCTGTCTCATAAAAAGAT TCAACTTCAAGTAGCACAATTTCTGTCTGCTTTTAACTCTGAACATTCTTGAAGCACGAA
WI-13446	22 G C TCACTCATCA	GCCATGTTCTT	AAGGGAATCA AAATCAGAAG G	TGCCATGTTCTTCACTCATCA[G/C]CCTCTGATTTGATCCCTTTCTGCTGTAAATTTTTCTTC TTCCCTTTTAGGGCCTAGTCTGTTTGAATAATCTGGTTTTTGAGAGTAGTGAGCCCTTTTACTTTTTT CTGACTGCTTAAT
WI-13725	56 A C TGGGTGCC	TGAGCACATA	CCTGCTGTCTC GGGC	TCACACAAAGGCATTTGAAATGTCACCTTACACATGGTGAGCACATATGGGTGCC[J/C]GCCCCGAG ACAGCAGGATAAGTTTCACAAAACCTTGACCAGGCAGGTTAGAAAGGCATGGTTCAGGATG
WI-15702d	107 T C ---	---	---	CAAATGTTTTATGAAGAGACTCCGAACAAAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGGTGAGG AAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAACTAA[T/C]GGGTTCTTTGAACAAATAGTTT TGA
WI-15702c	101 T C ---	---	---	CAAATGTTTTATGAAGAGACTCCGAACAAAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGGTGAGG AAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAACTAA[T/C]GGGTTCTTTGAACAAATAGTTT TGA
WI-15702b	90 C T ---	---	---	CAAATGTTTTATGAAGAGACTCCGAACAAAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGGTGAGG AAAGCATGTGAGAGAAACTGTAAAC[C/J]TGTAAACAACTAAATGGGTTCTTTGAACAAATAGTTT TGA

WI-15702a	48 G C A A A G	A A C A A A A T A A A G G C T T T C A A	C C T C A C C C C T T T A C C C C	C A A A T G T T T T A T G A A G A G A C T C C G A A C A A A A T A A A G G C T T T C A A A A A G [G/C] G G G G T A A A G G G T G A G G A A A G C A T G T G A G A G A A A C T G T A A C C C T G T A A C A A T A C T A A T A G G G T C T T T G A A C A A A T A G T T T T T G A
WI-13831b	113 T C	---	---	T T T T T T T T A T G G A T G C A C T G T T A C A T G T T A T T A T T A G C G A A G G T G A C T T G G A A A A G G A G A T T C A C A T A C T T C C A C T G T A T C C T C C G G G T A A G T T T C C T C T C T C T G T A G A T [C/G] T C T C C A T G T T A C A G T C A A C T A T A A A C A T G G C T C A
WI-13831a	56 G C	---	---	T T T T T T T T A T G G A T G C A C T G T T A C A T G T T A T T A T T A G C G A A G G T G A C T T G G A A A A [G/C] G A G A T T C A C A T A C T T C C A C T G T A T C C T C C G G G T A A G T T T C C T C T C T G T A G A T G T C C A T G T T A C A G T C A A C T A T A A A C A T G G C T C A
WI-13806	62 G A	---	---	T G A T T G A G C T T A G A A A G G A A G T C A T G T T G A A A T C A G A G A G A G G C C A A A A C T A G G C C T C A G G T [G/A] C C C A T T A A G C A T G C T G T G A A T G C A A A G G A A A G C T T A A A A A A T T T T T A A G G G T G A C T C C A G T A A A C A T
WI-14372	86 A G	---	---	C A C A T T T C A G C A A A C A A A T C G A G G T G C A A A C A G G G T T A T T T C A C A T T A A T A T A T T A A C T G G A T T T T T T G T C A A A T A A A T A G G G A [G] T T C T T T A A A T A A C C A T C T C C T C A C T T C A T G G C C A G T
WI-14373	95 A G	---	---	A G G C T G T T T T T G A G G C C T G A G G C C C C A C A C A T G A C A A C G T A A G A C T G T A A C C A T G T C A T G T G A G T T A T G A G C T A G G A A C C C T G G A C G A A A C C A [G] C A C A T A T A C A A T C A T C T C C C A C C T C C C A A C G C C T T T A C T T T C A C A G C C T C T G C A
WI-14078	61 C T	A A A G A A G T A A A T T A G G A A G A G C A A G A	T G T G T G C A T G T C T C T T A C T G C	A G A A C C G A G A A C T C A A A G A A C C A C A C A T G G T G T A T C A A A G A A G T A A A T A G G A A G A C A A G A [C/T] G C A G T A A G A G A C A T G C A C A C A A A T C G A A A C A A G G G C A T G G A G G A A G G A C T T T A G A T G G T C A C G
WI-14083	47 C T	A G A C T T G A G A G C T T A A A A C A A C A C T	G C C T A C T G G A C C T C T A A A C T A C T G A	T T G C T A C A T A A C A C A T T A C T C C A G A C T T G A G A G C T T A A A A C A A C A C A C T [C/T] A T T T T G T T A T T T C A C A G C T C A G T A G T T T A G A G G T C C A G T A G G C T T G G C T G A G T T G T T G C T T A A G G T C T T A C A A G G C C A A
WI-14085	31 A G	A A T A A A A C T T A T G T G T A A G A A G A A A A A	C A G T C A T G T T C A C G T G C T A G T T	T G C A T T T A T T T C A T G T G T A A G A A A A A A C [A/G] T A A C T A G C A C G T G A A C A T G A C T G C A T G G A T A C A C G G C T C A G C A C G A G G C T A A A G T C A G A A G T G A G T G A A A A C A A A A T A G C A T G T T G A T T T A A G T G A A A T A A C A G A A C A G G A G G C C T T T
WI-12169	121 G C	A A T A A A A C T T C C T A T T T T C T T T T G C T T	G G G T T C T G A G G T G A A A G A A A A A	G T C A A A G G T T G G C A A A T T T T A T T T C C A C T T A T C A A G A A C T T A C A A A A T A T T T T G T T C A T T T C T A A A T T T T C A C C T T T A T T G C T A A G T T A A A A T A A A A C T C C T A T T T C T T T T G C T T [G/C] T T T T T T C T T T C A C C T C A G A A C C C C C T T A
WI-15705	50 A G A T C	G G A G G G A G A T T T T A G A C T G A	A G C T G T A G T C G T C A A A T A C T C T A G A A	T T G T T T T A T T T T G G G A G A A T G A A G G A G G A G A T T T A G A C T G A A T C [A/G] T T C T A G A G A T T T G A C G A C T A C A G C C T C T C T T T G T A C T A C G G A G A C C C T G C T T A T A G C C C C A C A G A A A T C C T C A T C T G G G T T G C C A G A C A G

WI-14379	102 C T	TCTATTAA GGGTATGCA CAAC	ATCATCTGTT TGAGGTTGACA	TTTATGCTGTTGTTTCTACTGGTCGGTCACTAATATCCAATCTAGTATGATTTCTTT TACTTGTGCTATTAAACAGGGTTATGTCACACC[C]/TGTCAACCTCAAACAGATGATACT TAAATAAAACAAAGCAGAAAA[C]/CCACCATTAACAAGAGGACACTGCAGAGGCTTATGTACA ACACGTCCTCCGCGAGGCTGGCGAGGACTGCCACTCACTCCAAAATTTCTTTGGAGCAGAG
WI-14102	22 C A	---	---	ACCGCAGAGCTGCTGTATTTAAAAA[G]/ACAAGCGTCTGGATCTCGAGGGGCTGGGACCAGCTGC AGTGGGGGCTCCGGCACTGCTCTGCTCTCCAGGACTCTCCACCAACCCC
WI-15937	24 A G A	CGCAGAGCTG CTGTATTTAA	GCAGAGATCCA GAGCCTTGT	TGAAACTGAAACGTATTTCCTCCA[C]/ACACCGTAGAACTTAAAGGCCGGAAGACTCACACCC ACCACCTAGCGCGGAAAAAGGAAGTTTCAGGTGATACAAGATGCTCTGCCATCACACCTGAAGGAT GGTT
WI-15944	24 A C A	AAACTGAAAG GTATTTCTCC	GGCCTTTAAGT TTCTACGGTG	ATGTTTATGATCAATTCCAACATACAGTACAGGGAAGTGAAATGAGTAAGAAAAAAATCAT ATTTAAGTCCCGTTAACACTAAGCC[A]/GTATTATTCAAATGTGTTTCAAATACTCAGCCAGAT CACCAAAGCTCAGTCACTAC
WI-14124	92 A G	---	---	GACAAAGAGGCAGTTCTGTAGTCCAGCAGGGCCAGAGCAGTTATCAGAACGGTGGTTGACCT GCATAGATTTTTTGACGACTA[C]/GTGGCCATGCCATTCCTGTAAAGTGAATTAATGAACA
WI-14125	88 C T	GGTTGACCTG CATAGATTTT	GGAATGGCATG GCCAC	GTTATTTTCTACAGTCTGGAGGTTAGAAGCTGAGATGAGGATATCACCAGCATGGTTAGTTCT GGTGAGGACTCTCTGGCTTACAGCTGGCTCTTCTCACCATGTCTTCACAT[G]/AGCCCCAAAGAGAC AGAACAAAGCTCTCTGGT
WI-14136	120 G A	ATGTCTTACA	TCCTTGGGC	TTGTTGTCGCCACCAGAAAAAGCT[C]/TATGTTCTATGTTATGTCACGTACATACTGTAAACAAGACT GCATTAATATTGTTTCTTATGATTTGTTTCAATG
WI-14138	23 C T	TGTTGGCACCA GAAAAGCT	CAGTATGTACA GTGACATAACA TAGAACA	GGCAGGTTTATTCATAATTTCAAACCTTGAAGCAACCAAGATGTCCTTCAGTAGTAGTATATCA GACAATC[G]/A/ATATTACTTAGCACTAAAAGAAATGAGCTATCAAGTCATGAAAAGACATGCAGG AACCTTAAATGGATATTACT
WI-13551	74 G A	GACAATC	TAATATT	TTTTTAAGAGTGCCTTCACATCATTTATATTGATTCACACAAAACTTTTTAACT[C]/TGTCAA AAACAACAAGAACAGATGAATAAGGAAGCCCAGTGCTTTTTTGAGATAGAAGCCTTCTTCAGAATCA CCTCCC
WI-15953b	59 C T	---	---	TTTTTAAGAGTGCCTTCACATCAT[T]/G/TATATTGATTGCACACAAAACTTTTTAACTCCGTCAA AAACAACAAGAACAGATGAATAAGGAAGCCCAGTGCTTTTTTGAGATAGAAGCCTTCTTCAGAATCA CCTCCC
WI-15953a	26 T G A T	TTTTAAGAGTG TCCTTCACATC	TCATCTGTTCT TGTTGTTTTTG A	TTTTTAAGAGTGCCTTCACATCAT[T]/G/TATATTGATTGCACACAAAACTTTTTAACTCCGTCAA AAACAACAAGAACAGATGAATAAGGAAGCCCAGTGCTTTTTTGAGATAGAAGCCTTCTTCAGAATCA CCTCCC

WI-14631	82 G A ---			---	TGAATTCATGGACAGTTTTGCCTCTGTTTTAGTGAACCCTCACAAGCACTCTGCATAGTCCGCTTT CTGTCTTCTTTAAAC[G/A]TGCCTGGTTCCCTCTGCCCAAACTTTTAGGATTGGCCTCCTCAGGGCCTT GTCTCTGA
WI-6053	24 A G ---			---	ATCACCAACCGTGTCTAAGAACAAAC[A/G]TCTTCATGTCCAACTCATATCCCCGGGACTTTGTCAACTG CAGTACACTTCTCGCATTGAACCTGGCTTCTCGAGGGGAAGCCTCCTAGAGCCAGGTAAGGGGGTGC AGCAGTGAGGGGTATATCTGGCTGGCCAGTTGGAACCCACGGAG
WI-15964	99 T A CTGGAGGTA	GCTCTCTGTCC	GACTTCTCCAC	CCTCTTGC	CAGAAACCTCTTCTGTGTATTAAAGTGTATGCTAAAGTCAGAGCAGTCCAAAAGGAGGAGGCTGCCTT GGGAGGTAGTAAGCTCTCTGTCTCTGCTGGAGGT[A/G]GAAGAGGGTGGAGAAGCTTGGCAAG
WI-12075	103 G A GGCAC	AGCAGCTGGG	CCCCCTCTTTC	TCTTCTTTC	CAGCTAAAGGATCACTGCAGCTAAATACAGATAGAGAAGCAACAAGCCAGGCCAAATACCCATCAG AGACAGTGACAAGAGCAGCTGGGGCACGGGGAGGC[G/A]GAAGGAAGAGAAAGAGGGGAGGAG CCT
WI-12179	96 G A TGGAGGTCA	GGAGGTACGG	TGGAATGACCC	TGTAGATGC	TAATTTAAAAACACGCCCTTCCACATAGTGGCTGAGGCACTCTGCACATTTTCTAGAAGGACATGA ATAGTGTGTGGAGGTACGGTGGAGGTCA[G/A]GCATCTACAGGGTCATTCCGAGGAGGAACAG
WI-14651	49 C G ATTGT	CAAGAATCAT	GGAGATATTGA	CTTATTT	CACAAATAGTGAAATTTATCTGAGCAAGAATCATTCTCATTTAAAATTG[C/G]AAATAAGTCAGAA AAAGATCAATATCTCCCTGCTTCAAAAATGACACTCCCAATTTTCACAGGTAAACCCTGTTA
WI-14666	105 T A ---			---	AATGTGGACTTTCAAAACAAGGGTTTAAAACATACTATAACAACCTCTACAACACATTCACAGAGCAT TATAACAAGAAATTTACAGGCAGCTAATGTATTTAAA[T/A]AACCATGAAAAAGAAAAAACTTG
WI-13473	31 C T ---			---	ATCTAGATGTCAGCAAAATGGGCTGAGACTG[C/T]TGTCTGTGTAGATGCAGTGTGTGTATGTTTCTAC TCTATTACAAAAATTAAACAGAAATATGGCTTCGCTTTGTGCAAAATGTTTATATCACAGTC
WI-13967	103 A C AAATAAAAA	AAAAAGACTAC	TTGTGTTTTCA	TG	AATTTAATAGCAGCTCTGTGTTGTGATTTTAAAGAACAAAGATAAAAATATGTCATTCAGCAGTCATTT AAAAATAAAAGACTACAGATACAAGGAAATAAAAA[A/C]CACITTTAGGAGATGAAAAACACAAA
WI-14408	60 T A G	GCAGACACAC	TTAATTGTGTA	TTACTTT	TTAATATTTCAGCAAAAGTTATTGCAACAGGTTGAAATGCAGACACACTATTACAGGCTG[T/A]AAA GTAACAAATGAGTTTTACACAATTAAATATTAAACACATACTATTGGGATTTGTTGAATGA
WI-13683	47 C G ---			---	TTTTGTGTTAAGAACAGCAATTTTGAAAAATAAAACCTATCTGCCCATG[C/G]TTTACAGCCTTTTAAAT TTGTAATATTATATAGTCGTTTATGTTACATATTGATTGTC
WI-13910b	63 C T CGTCT	CACCATGGCA	CATTGAGATAA	CAC	TTAGAAAACTGATAAAAGCAACAACTTTTGGGGAAGCACCATTGGCAGCTCCTTTGTGCTA[C/T] GTGATAAGTGTGCTTTATCTCAATGAAGCAACCCCA
WI-14635	22 G A ---			---	ACATGGCAGATACAGAGCTG[C/G]ATCTTGAAGACCACCACCTGACCAGGAAATGCCACTTTTACAA AATCATCCGCCCTTTTCATGATTGGAACAGTTTTCTGACCGTCTGGAGCGTTGAAGGGTGACCAGC ACATTTGCACATGCAAAA

WI-16002	59 T C	GATAACATAA AATGATCATG AGAATTTC	GCCATCTCCTC TTTGACTTTT	CCAACATTTTAAACCTATGACTGGTCAITTAACATAAAATGATCATGAGAAATTTCAIT/CJGTTA AAAGTCAAAGAGGAGATGGCTAATGCATGCTGGCT
WI-15361b	101 A G A	CCCACITGAAC TCAAGTCATC	AAACTAAAC CITTTGTCCTA AAA	GTGGAAATTTTAAAGCCATCAAAATTTCTTCACACTCAATACTGTTGAACAACAAGATAACACAT CTTCTTGCTCATCCACITGAAGTCAAGTCATCA/GJTTTTAGGCACAAAGGTTTTAGTTTTCTCGG GAAATCAAGTTTTAAACCA
WI-14759	73 T C	GCGTTTGACTT GTGGGG	TCCACACTGC CCCC	TGAGTTACAACAAATGAGCAACAAGTTAGAAAAATTTGTTTTATTCAAACCTTCTAGCGTTTGACTT GTGCGGT/CJGTACTCAAATGGGGGCGAGTGTGGACGGGAGGATTGCAACCCAGAGTTTCATACTG CAA
WI-12535	50 A T TAT	CTAGGAGGGTT GAGGTGTAGA	GCTCCACGAGA AGAGAGGAA	TCCTAACATTTATTTTCAGGTGGTGACTAGGAGGGTTGAGGTGTAGATATJ/TJCTTCTCTCTCTC GTGGAGCCTTACTGAACAGGATGCCGTTCTTGTTTATCAGCTGAGAGGGCAGTCTCGCCATC TTAAAGACCTGCOCTCC
WI-13805a	112 G A GGGAA	AAAGGCACAC	CTCAGCCTGCC TTGACC	TTCCATTCAATATGCTTGGCTTTACCAATTTTTATAGCTATTGGGAGGCAGGAAAGGAAATTTTGGC CCCAGAAACCATGAGATTTGGTGCAGAAAAAGGCACACGCGGAA[G/A]GGGTCAAGGCAGGCTGAG AGTCACATTTCCAGACCTC
WI-12340	18 T C ---		---	ACACAATATAATTCATT/CJCGAGTGATTAAACCTATTTGTTTGTAGAACCAACAAACACTAC AAGAAAAACATTTTCAAAACCTTTTTTTCAGGCTGA
WI-14808	52 T A CTACCCTGT	ACCCACCACA CTACCCTGT	GAGGCATCACA ATGTTAAGATT TT	CTTTGAAACACCTTTAAGCAACAGTTAAAAAGTACCCACCACACTACCCTGT/JA/AAAACTTTAAC ATTGTGATGCCTCTGCATCAATTTTAGAAAAACAAAGAAAAACAACTGAAGGCCCATGTA
WI-14816	29 A T ---		---	AGTTAAAAAAATCGAGTCAGCATTTATTTA/TA/AAAACTGGACACGCTTCTATATTGCAAGCTCAT TCAATGCATTTATTTTGTATCCCAAGCCCTGAACATGAAAAAATATTTACTAAAGGAATGTTG ATTACCAGCTACGACTTTC
WI-12542c	71 GT ---		---	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTATCCATGTGAGGGCTCTAGATC ATG/GTTAGTGATTGATACAAATACGATCCATAA
WI-12542b	70 GT ---		---	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTATCCATGTGAGGGCTCTAGATC ATG/TGTAGTGATTGATACAAATACGATCCATAA
WI-12542a	45 C T TTTAAA	GCTATTAGGC AAACTGAACA TTTAAA	TCTAGAGCCCT CACATGGAT	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGT/CJTATCCATGTGAGGGCTCTAG ATCATGGTAGTGATTGATACAAATACGATCCATAA
WI-12173	57 C T CAAAAA	GGATACAGCA GTAAGAATA	CCACCTCTAGA ATGTATGCTCT ATAA	CACCTAAATCATTTAGAAAACTGGGGATACAGCAGTAAAGAAATACAAAAATCCTGC/CJTCTTATA GAGCATACATTTAGAGGTGGGAAAGAGGCAATAAATA



WI-14836	28 T C ---		---	TC TTGGAGGGATAGAGGACAGAGTGTT[C]GTTGATTTTCGGTTTCAGTTGGTTGTCATT GGTTTTGTTTTTGCTAATTTTGGCCACCCTATAAAAAGCAGTGCCACCCAGAGGCAG
WI-14856	60 A T A A	TGGTGACACG GAAAATACTT	TTTGTTTGCTA CTTTTTACAAA CTTT	ACATTTCTTATGATAGCAACAATAATATGATGGATGGTGACACGGGAAAATACTTAAT[AT]TAA AGTTTGTAAGAGTAGCAACAAAATGAGTATATACTATAAGTGATAGAGGATGTATATGAAAAA GGCTATAAAAAGCTCCAAA
WI-14863	61 G A ---		---	ATGGCAATTTACTTTTATAGCAATGAACAAATATTTGTCAAGGGGCAAAATATTTTGTCTG[G/A]AG TTAATAAAGTTAATAATCTTTTACCACAAAGCTAGAGGTCAACAGTACCACACTATTATTGATTGCCACT ACCTGGC
WI-14867	46 T C A	GACATTCCAA GGCTCTCTAAC	TGGGGCTGCAG ACACTC	TTTTAATTAACGTAAAAAGGACAGGACATTCCAAGGCTCTCTAACA[T/C]GAGTGTCTGCAGCCCCA TTCGCTTTGAGATGTGAATGTGTTAACCCAGGGTGGA
WI-14733	98 G A A	CCAAATTGAC AGATAATTCTGC	GATGAGGTCAG GCCATTTATT	ACGGAGTCGTCCTGATGTATTCTTGTCAAAAATGTTTGCCTGATTCTAATCATGAAAGAACAATT AGAAAAAATCCAAATTTGACAGATATTCTGCA[G/A]AATAAATGGCCTGACCTCATCAAAAAACATCA ATGTCATGAAAAACACAAAA
WI-14898b	79 A C ---		---	TTTTGTACCTATTCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCATAAGGTGCCACTAAGGAAA ACTTCTCCAT[C/A]AGGCTGCCTGCTGTGCACGTTGCCTGGCTTTGCTAACCCCTGGTGTGCATCT GCCTGTGTTCTGCTT
WI-14898a	50 A C C A	CATGTACAGG AAGAGTTGTCT	AAGTTTCCCTT AGTGGCACCT	TTTTGTACCTATTCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCATA[C/A]AGGTGCCACTAAGG AAAACTTCTCCATAAGCTGCCTGCTGTGCACGTTGCCTGGCTTTGCTAACCCCTGGTGTGCATC TGCTGTGTTCTGCTT
WI-14907	48 G A GGACTCTGAC	GGCACACATT GGACTCTGAC	TCTGCTGCAAG GGGAAT	TGGTATTATTTCCGACATTACTGTAGAGGCACACATTGGACTCTGAC[G/A]ATTCCTTGCAGCAG ACATTTGTGAAGCTGCTGGTGGCCACACCCCATCAATCAGTACTCTGCACTGCAGAGGGGCCACATG CACGATGCTCACGTGTG
WI-14911	52 G A C	CCAATACATT CAGTTCCTGGT	CAAACCAGGA AAAGGACCTT	CTAGAATCTGGGAAGTCCAAAGCTCAGTGCACCAATACATTAGTTCCCTGGTC[G/A]AAGTCCCTTTTC CTGGTTTGCAGACAGATACCTTGTCTGTATCTCATCATGGCAGAGAAAGAGAGGAAATATCT
WI-14913	88 C A ---		---	CTGATGCTTTGACATCTGGGGCATTGCTGTCTCTAGAGAGACTACTTCTCTGGACCAGCCAAITTC TAGTGATAGTAGGAGACTCA[C/A]CCTGCAAGTGCACCTTTTCATATACAGATCAACCAATCCAAAAAC CTACACCTCCAAACCCT
WI-14914	66 G C A	CTGGACACAG TTTTCTCTAGC	CAAGCCCAGGA CAATAAATTC	ATTTCCTTGATTGGCTGCTGTAAGCCCTGTGAAGTCATGCACATCTGGACACAGTTTCTCTAGCA[G/ C]GAATTTATTGCTCTGGGCTTGATGGCTTTCACAGC
WI-14926	49 T C ---		---	GTTTATTTTCAAAATGACACATCCCAGATTGAAATGGGCACCTTAGCGAAT[C]ACTTGTGGACCACA AGACTTGTCTGAGAACATGTTTCAAGACAGTTTTTCAAAATAAAAAATTTCTTAATCAGGTCCA



WI-16083	89 C T	ATGTTTAAACA CAAACATATC AAGGAT	TGAAAAAGATT CCAGCC	GCATCTTTATTACACAGAAACTCATTTATGTCCTTAATCAATTTGTTAATATAATATAAAGCATGTT TAACACAAACATATCAAGGAT[C/T]GGGCTGGAATCTTTTCCATTTCTATAGAAAAAGCACTAACCATC CATTAAGCAG
WI-14930	55 C T	GGAGGAGTCC CTCATGGAT	CACAACCAACC AATACCGC	CAGTTCTGTTCTGGAACAGCTCTCCTTTTCCACAGGAGGAGTCCCTCATGGATC/T]GCGGTATTG GTTGGTTGGTGATTGGGGAGCACGAGGGAGAGCAA
WI-14946	47 T C	---	---	TCAATCTGAAGGTGTCAAAGTGGTCTATTTGCCCCAGACATAACA/T]C/TCTCTAAATCATCCTCTA GATCAGGGAGTCATAAGGACCAATTAAGGCTCATTACACACAGTACTTTTATGGAAGGATT
WI-15987b	80 A G	---	---	ACATTAACACAGCACAAATTAAAGGGTCCCAACGAGTTGGTAGTGCCTTCCACTATGTGAGGACAC TAAGAAGATGGT[C/A/G]TCTATGAACCAAGCTGCCGGTGCCATGCTCTTAAACCTCTCAGC
WI-15987a	32 C T	CACAATTAAA GGGTCCAA	GGAAGGCACTA CCAACCTC	ACATTAACACAGCACAAATTAAAGGGTCCCAA/C/T]GAGGTTGGTAGTGCCTTCCACTATGTGAGGA CACTAAGAAGATGGTATCTATGAACCAAGCTGCCGGTGCCATGCTCTTAAACCTCTCAGC
WI-14948	56 T C	AGGAAACTG CTAACTTGTC	GATGATCTTAC ATCAGTTGTG	GAATAAAGTCTTATTGCCGTTCTTCAGGGAACAGGGAAGTCTAACTTGTCTAGT/C]TCCAAACA ACTGATGTAAGATCATCTCTGACCATAGCGAACTGTAAAGGCTGCTGTTCCCTCCAGCTGA
WI-16100	52 A G	CAAAAAGCTA TTTCTCTACAG	ACAGGAATGTC AGAAAACAGT	TTGTGTTAAATTCATCAAGAAATTGACAAAAAGCTATTTTCTACACTTGAC[A/G]GTAATATACTG TTTTCTGACATTCCTGTTATCAACTCCTCTGAAAATC
WI-14958	83 A G	AATAATTTAT CTCTTCTTTT	AATGCATTCTAT TTGGGTTTT	GTGATTGATCTGTAATTATTGGGATTATTTATCAACTCTAAAATCCAAAGATGAAAAATATTTATCT CTTTCTTTTCAAGGG[A/G]AAAAAACCCAAATGAATGCAATTTTCCAGTTTCTCCAGGCCCTTTGAACTGC AGCAGAAAATTCAGGA
WI-14976	35 C T	GTTGATTTGCT TCGTTCAAAG	TCAAACATAAT CTTCCATTCTA	TATTTTTTAATTGGTTGATTGTTGCTGTTCAAAG[C/T]GCTTAGAATGGAAGATTTAGTTTGAGGAG GGGCAGGTTTGGGGTAGGCTCAGCGGGCATAGTGGCCACAAGAAGATGCCCATCTCACACCTGGAG ACGTCCATGAGCACCTCG
WI-14981	31 G T	TCAGTGGTGT TATTGGATTT	CACCTCTGACA TAATACTTAGC	TAATTGATTCAAGTGGTGTATTGGATTTT[G/T]TTTATGCTAAGTATTATGTCAGAGGTGGAGAAT AAAGAGGAAAAAGAAACAAGTGTGGCTCTCGCATCAACGACCTGATCTTGTACAGGAAGTTTGA GAGCTCACAAA
WI-14992	80 C T	TGCATTAAT GAAGCTGCAG	GCTATGTGCTC AGCTTTCCT	TGATTACATTTTTTAAATCATGCCTACCAGCCCATCTAAGCCAAATTCAAACACCACCTCTGCATTA AATGAAGCTGCAG[C/T]AGGAAAGCTGAGCACATAGCACCCCAACTGATCGGAAAGAAACGTA
WI-15002	72 T A	---	---	AAATCTCTCTTTCACACACAGATGAACCTTTAATAAATTACAAATGCACCTGAAAAATGCCTTCTTGA TTTCTT/A]TTCAGTTTAGGCTCAAATGGGCTCTCCTCAAGGCTGGACCTCAAAAGGCCAGTT
WI-15000	90 G A	GACAGAAAAA GACTCAGACT	GTTTCTAGTTC TGCACAACTT	TCAAGCCAAATATCTGCAACAATAACATGTATTGAAAGGTATAGAAATAAACAGATGGATAGACAG AAAAAGACTCAGACTGTCTAAGTA[G/A]TGAAGTTTGTGCAGAACTAGAAAAACAAAAATCCACCT

WI-12323	68 G A	CACAATACCT CATGTACCTAT	CACTGGACATA TTCCCTACCTG	ATTTTGTGATGTTGGTTAAATCTTATCTCTTTTATACACAATACCTTTCATGTACCTATGAAATAA G/AJACAGGTAGGAATATGTCAGTGCAGAACAGAGGACTCACACCTGTGCATAGACAGCAC
WI-14683	91 A T	AAGGGACGAT TTAGTATCTAA	GGCATGTCCCA GTGTTTT	CATAAGTTGCATTTATTCACGTCACGCCCATCTAAAGCTACTGTGTACAGTAATCAGGACTGGAGAA GGGACGATTTAGTATCTAAAAACA/AJTCAAAAAACAACACTGGGACATGCCCTGAAATTGCAAGT TGGAGTTCGTAAGAATCTAC
WI-13470	100 C A T	CCAGCCTTTAT ATTGGAATTC	GGGAGACCATG GGTCTCT	ATTTGTGTTTATTTAGCACCTGAATTTAGGCAAGAGAAACATTTCTACCTGAAGACTCCATGCAGT CAAAATTCCTGCCTTTATATTGGAATTTCTA/C/AJAGAGACCCATGGTCTCCCCAAGTGAGGAAGCC AGGCACTCAGCCCTTC
WI-14712	38 T A CA	TGAATGCTTCC AAGTACAAAT	TGAAAGTATGT TGATATGGTA	TTTGGTGCTACTTTTGTGAATGCTTCCAGTAGCAAAATCA/T/AJCTCACAATACCATATACAACATACT TTCAATCACAACTCAAAATATAAAATAAACCTACAAAATCACATTGC
WI-13712	40 A C TCTATTG	TTTACTTTGTT GTCAATTTTAT	CCATAAGGTCT CACACTTTTCT	TGGGATACCCCTTTACTTTTGTGCAATTTTATTTCTATTG/AJATTATAAGAAAAAGTGTGAGACCTT ATGGCTTCTGCTTATTGGCAATATGCAATATAATATTGTGTGTTTAAATTTATGCAT
WI-16163	35 C T A	TCTGTGATGC AATTGAAATA	GCTGCCAATTA CAATTAACCTAC	TCTAAGATTTTACTCTGTGATGCAATTGAAATAA/C/TATTGTAAGTTAATGTAATTGGCAGCAAT GCCCAAAGTTTAAAGGACTATTCTTTAAACAAGACAGTGTCTGACATTTATTTTCAGGT
WI-13453	88 T A TC	AATGCACAAA ATCTGTCTCT	TCAGATTTTAA CATCTCTTCT	TTTTTTTATTGCAATTTGAGTGTCTTATTATATTGGGAATTGCAGIGATATTAAACATTTGTACAAAT GCACAAAATCTGTCTCTCTC/T/AJTGCTAGAAAGAGATGTAAAAATCTGACCTAGTTGAACAGTCTT AATGAACCTCATTGTCCAT
WI-16167	58 T C GATTTT	CGCACTCTAA ATTAGAGATA	TGCTCGTGGTG AATAAGATG	CGGATATAATTATGTACCGCACTCTAAATTAGAGATAGATTTTCTGATATACATTT/T/CJCATCTT ATTCACCACGAGCACACCCACACGACAGTAGAACAGTTCCACACCTGATAAAATTGCACAAGATG
WI-14482	17 G A ---		---	GCAGAACCAATTAAATG/AJAATCTGCAAGTTTCCCCAAGAAACTCTGGAACCATAGTGCCTAAT GCCCTTTAAATCGATACTAAAGGAGAGAGAAATAAAGGACTGCTTGATGTGACAGTCACTGGT
WI-15069	81 T C ---		---	TGTAGTCTTCAAAAGACATGTTGGCAGATAGCCAGGCCATCTATGTGTATTTCCAGTATCATGTAC GCACTAAAAAAA/T/CJGTGTGCTTGTCTGCTGTGAGTGAACCATTTGCTTAAGATAAA
WI-16156	97 A C	TGAAGATTAA CCCAGAGTCGC	AATTGTGTGCA TTTTGAAGAGA	ATCTGGTATTGTGTATCCCAACAAGTATACAGAATACTCTATAAAACCAACCCCAACCTTCAATA TTACACTAATGAAGATTAAACCCAGAGTCGC/AJCTCTCTTCAAAATGCACACAATTAAGACG
WI-15012	59 G T ATGT	GCAGCAAGAT TACATCAGTA	CTCCAAATAGC CTAGAGTATAG	CATGGCAGCAAGATTACATCAGTAATGTAATATAATACAGCTTTTTCATTGAAGCTTTT/G/TJACCT TACTATACTCTAGGCTATTGGAGTGTTCCTCCAC

WI-15100	74	G A ---			---	TCTTATTCACAGCCCAAGAAAAATACCCAAATTATTTCCAAATAAGCAAAAAATTGGAACAGACTGGA GTGAGAAC[G/A]GGTTCACACCACCAAGCCCTCAAGACAAGATGGACACGGCAGCTGGTTCTGGGGT GCATTTCTAGTGGACTTAT
WI-14492	92	A T AATTACT	CCTTTATTTTC CCAAATATAA		GTCACCATGTT ATATTTTCTTT TAAGAC	TGGTACAGAAATGTTTAAATTACAGCAGGGCAGTGATTCAGTTAAATAAAATTAACATGGTGACAGCTTT CCCAATATAAAAATTACTAAATTA[A/T]GTCTTAAAGAAAATATAACATGGTGACAGCTTT TCTTTAATTTATCGGAATCCAGGACACAACAAGAAAAACCCCAAAACCACATGGAGACAGAAG ACGAGACACAACCTCTCCCCAC[T/C]GCCCTCCCTGCTCTAGAGTGGGACAAAGTGGGGGTGAGAC AG
WI-12002c	89	T C ---			---	TCCTTAATTTATCGGAATCCAGGACACAACAAGAAAAACACCCCAAAACCACATGGAGACAGAAG AC[G/A]JAGACACAACCTCTCCCCACTGCCCTCCCTGCTCTAGAGTGGGACAAAGTGGGGGTGAGAC AG
WI-12002b	68	G A ---			---	TCCTTAATTTATCGGAATCCAGGACACAAC[C/G]AAGAAAAACACCCCAAAACCACATGGAGACAG AAGACGAGACACAACCTCTCCCCACTGCCCTCCCTGCTCTAGAGTGGGACAAAGTGGGGGTGAGAC AG
WI-12002a	30	C G GGACACAA	TCGGAATCCA GGACACAA		TGGTTTTGGG TGTTTTCTT	TTTTCATTTATTTCCAGAAAAAGAAATCACATTTTCAGTAACAACCTTACATATAGAAATTAACACTTTG TTCTGGAATGGGAGCCCTAGTTGCAGTAA[C/T]GTGTCAATAATAAATAATTGCATATTCAGGATTTTG TGAATAGGTGATTGGGA
WI-15116	96	C T GTTGCAGTAA	GGGAGCCCTA GTTGCAGTAA		CCTGAATATGC AATTATTTATT ATGACA	GCAAAAGCAAGCTATGGAGGCCCTAAAGGAATGGAA[C/T]GTGTGGTGGCTGCTGATACTTGGT GCTTGTGTGCATGGAGCAGAAAGTCTTCCTGTGTCATGCAGGGGCTCACATATTTAACTGCACTAAT TTGGCAAACTGTCTTC
WI-12578	37	C T AATGGGA	GGCTAAAGG AATGGGA		TCAAGCGACCA CCAACAC	ATTTACGTTGGCCAAGATCTCCCTTATGTTGGCATTGCA[A/G]JAGACACTGCACCTTATCTGAGGTTA GAAAAATGTAGTCTTAATAGCCCTCTTAATGTGTAGCAAGGCAAAATTACCATTTCTCTAA
WI-15153	40	A G GCAATTGCA	CCCTTATGTTG GCAATTGCA		T	CCTTTGTCTCTGAACTGGGACCCAGGATGTGAATAATTTTGAATCTGATGCAGGTCGAGGTATGGC TTTAGAATCAAATGGG[G/C]TGACTTTTTCCCTGTGTGGTGGAAAACTCTGTGAGGGTTTGGCA
WI-15215	84	G C TCAAATGGG	TGGCTTTAGAA TCAAATGGG		CCAACAGGGGA AAAAGTCA	AGGAAAGAGTGGTAAAGCAAAAGCGCATCTGGATGGAATGATTATGTGTACGAGCACTTGAGGAC CTAGAAAGCAAAAC[C/T]GGAGTGATTATGCCAATCAAATTTGCAAGGTTGGAGATATGCTAAAA
WI-15225	80	C T C	CTTGAGGACCT AGAAAGCAAA		TTTGATTGGCA TAATCACTCC	AATTTGCTAGTCAAAATGGACCCAGAAATTTGGAAGGCTATGTAACTACACA[G/A]TATGCACACCAC AGCCATGTCAGTGTACAGATCCTCTGTGCACTTTCAGCTTTCTTAAAAACACATCAAAAGGCTGCA
WI-15152	51	G A ---			---	
WI-15123	55	C T TAGGATG	TGTTAGTGACA GACAGATAAA		TTGCTTAAGGG CAAACAGAC	TGACTGTATACCAAAATGCTGTGCTTAATGTTAGTGACAGACAGATAAATAGGATG[C/T]GTCTGTTT GCCCTTAAGCAATTTACAACCTACTGGGGAGAAACACAGACATGCAAAACACGAGATAAAACACAAT

WI-15182	49 C A	GCACAACAG GGCAAAATA	GCATGGGTAA TCCAGCA	GAGACTGCCCTGTGACACAACCTAGCTAGCTGCACAACCCAGGGCAAAATA[C/A]TGCTGGATTAAACCC ATGCTAATGGGTTACCTTTATTTAGTAATCATGGGTCCCTCATAAAGCATGGTCCAGATCCG
WI-15198	38 T C	GGGOCCTGGC ACTATG	ACTTATCCGTC AGGCAGAGTAG	GTGGACCTCTACAAGTACCACTGGGCCCTTGGCACTATG[C/C]TACTCTGCCTGACGGATAAGTTGGC ATATGGTTCAGATTGCTTGTCTACACAGTCCAGTTTCCCTAGAGACTAGTCCGACTCTCTT
WI-12601	42 T C	CATTTATTGAG TATTCCTTGCTT TGAT	GTTGTAGTCTT ACATGCTTACG TAGAC	TCAAGTGGTAAATAGCCATTATTTAGAGTATTCCTGCTTTGAT[C/C]GTCTACGTAAAGCATGTAAAGACT ACAACATTACGACCCCATCTCTTCAAGAGGAAGTCTGGTATTATGGAATAACATTTTGTCAATTCAGAT T
WI-14510	104 A T	TGGCAAAATA TGCATAACAA TAA	TTGAAAATGGT TAAACTGGCA	ATGTTGAGAGTAATAATGCCCTACATATTTAGTGTAAAGTACACCCCAAGATATTTTGGGAGAAGAG TTGTTTGTCTTTTGTGGCAAAATATGCATAACAAAAT[A/T]TGCCAGTTTAAACATTTTCAAGAGT
WI-15239	57 T C	CATTGCAAT AAACACCATC C A	GGACCTTATCT GTGGACTCAGG	CAGTGTGATGACATTTCAATGGGAAAAGATTGTGCATTTGCAATAAACACCATCAT[C/C]CCTGAG TCCACAGATAAGTCCCGGAGAGGGGCTTCCCTCCTTCTCGCTGGGTGACGTTCCCGAGCGAGT GAAGCCCTTTCTGGAATG
WI-12634	52 T C	GCATCATATG AACTGTCTAGC C AGT	GGACAAATTGT AAACATAGCT AATAGC	ATGAGTTTATAAAGTGGAGACAGCGCATCATATGAAGTGTCTAGCAGTATTA[C/C]GCTATTAGCTA TGTTTACAATTTGTCTGAAGGGGTCTAGATGTGTACACCCCAAGAGTGGTATTCCTGA
WI-15249	34 T C	GGGCTTGACAC AAGATTCTAA A A	GGAAGGCCAG AGATTTTAAAC A A	TTTGCCTGAAGGGCTTGACACAAAGTTCTAACTT[C/C]TTGTTAAAATCTCTGGCTTCTGGCTGG TGAGGAGGCACAGGCTGGGGTCTTCAGGTATCCACTGGTGCCTCCGATCTGTTCCCTCCACTCCCCAG CCCACATCTTGGCTCT
WI-12159	28 C T	AAGACACCGT GCAATGTC	COCTCTCCTCA GTGCACCTT	CTGTCCGGGAAGACACCGTGCAAAATGC[C/T]AAAGTGCACCTGAGGAGAGGGGCTGTGTGACTC CCAAACCTCGAATATTTATGAATCTAAGAGTCCAGACGCAGTTTCATCCAGGAGATCTGC
WI-12648	41 A G	CCTAGTGGCAT TAAGGATGC	TTGCTACTAAA AGTGGACATCC T	TCCCCAGATTGTATGGAATGCCTAGTGGCATTAAAGGATGC[A/G]GTAGGATGTCCACTTTTAGTAGC AACCGATGTTAATTCACCTACTCCATGTTAGGTGCTTTACTTGGATTATCTCACTTAAAACCCACA
WI-12684	64 G T	CATGCTGTAA ACAGCTGTGC	GGAACAACAA AGCCTAAATGG	ATGAGAGGTAAGTGTCAACAGTAGGCTTAAAATATTTCAGTAAACCATGCTGTAAACAGCTGTGC[G/ T]CCATTTAGGCTTTGTTGTTCCATTTAGAGAGCACAGGAGGAAATTTAGCATAATCTT
WI-15260	75 G A	AAAGGATGAA GCTAATCATG GA	TCCTCCAGGG AGCTTGC	TTTATAAGCTGAATGAAAGAGGTGCACACAGCGGACACTGTCTATAAGTGGAAACAAGGATGAAGCT AATCATGGA[G/A]GCAAGCTCCCTGGAGAGACAGGGACAAAATCAAGAATGAGCTGGAGAAATTA TCCTG
WI-15325	39 T C	CATGTGGCTGG GAGGC	CCTTCCACCAT GATTGTGA	AAGGTTTAAATGGACTACAGTCCATGTGGCTGGGAGGCT[C/T]CACAAATCATGGTGAAGGCCAAAA GGCACATCTTACATGGTGGCAGTCAAGAGAGAATGAGAGC
WI-13936	123 C T	AGTTGGCATT AATAGCCTAT C	TGAAACTCCCA CATGGAGTT	TATTTAGTATTTTCATCCATGGCGCTTCTCACTCCCTATACATCTCCAGGGTTGAGGTAGTCTACCC CCATAGGTTTCAGAACCTATGACCTGTATCTTCAGTTGGCATTCATAGCCTAT[C/T]TAACTCCATGT GGGAGTTTCATAATAA

WI-14528	62 T G	TTTTAACTTTT TCTGGATGGTA	CTCGATTAGCA CTTATTATAAA AATTAAAA	TATGCTTTATTGAAGAGAAATAGGCTATTATAATATATATTTAACTTTTCTGGATGGTATAAATTT/GJTT GAATTATAAAATTTTAAATTTTATAAAGTGCTAATCGAGACATCACTGGGTATAATTGA
WI-15347	74 C T	GACTTCAAAG GAAAAGAACA	TCACTCCCCCA AGTCTTGG	TATTTCTTCGGTTTCGGATGCAAAACAAAAATTTTAAAAAGAAATGTGACTTCAAAGGAAAAAGA ACAAATTTT/CJCAAAGACTTGGGGAGTGAAGGCAGAGCCTGGTGCAGATGGACGAGGTCTGCAGA GG
WI-14546	95 C A	CCAAATTTCTAG TGATAGTAGA GGACTCA	AAGGTGCACGT GCAGG	GTATTTCTGATGCTTTGACATCTGGGGCATTGCTGTCTAGAGAGACTACTTCTCTGGGACCAGC CAATTTCTAGTAGTAGAGGACTCA/CJCCCTGCACGTGCACCTTTTCATATACAGATCA
WI-15353	37 G A	---	---	TTTATTGGCTGTCTCTGTAATACAATGTGGTGAACAC[G/A]TCTTAAATTCAGGACATCTTCCACCTTG TTTGGCTTCCAGTTGACTGCAAGACCAGTGTGAGGCACATAGGCTGATTAAATCAGTGG
WI-14580	100 G A	CATTCCCATCT GTCTTGCA	CCGACCAAGAT CCCTCC	AGAAATTTTTCCTTTTAAACAGGACAAGTAACAGATTACATCAAACTTCAGAACTTCTCAAATAC CTAGTTATTATACACATTCCTCATCTGTCTTGCA[G/A]GGAGGGATCTTGGTCGGCTTAACA
WI-8540	73 T C	GGCCTGCATTT GGCTTA	GGCCTTCTTTT TCAGGCAC	CCAGCTGGAGGTGGAATAAATGCGGCAACACAGAAAAACACACAGCTACACAGGCCTGCATT TGGCTTA/T/CJGTGCTGAAAAAGAGGCCGACCTCTTGATAAAGAATGTCT
WI-8039b	97 T C	---	---	AAGTAGAACACAATAGAAATGGCTCAAAAATATCAGAATGCACATCGCACATCACGAGTAAATACTG TTTGGTAAAACTTTTTCAGTT/CJAAATATGATGTGTCCTGTCATGTGATTAATATCCTTCT TACCACAGTCACTAAAGAACCAAGCTTAGGACTAGGACACACACCACTGCAGAAAGAGCAGGGA GACCAGACACTCTGGGTGAGATGATGATTTTAAATGCCGAGCCGACACCCACA
WI-8039a	87 T C	---	---	AAGTAGAACACAATAGAAATGGCTCAAAAATATCAGAATGCACATCGCACATCACGAGTAAATACTG TTTGGTAAAACTTTTTCAGTT/CJAAATATGATGTGTCCTGTCATGTGATTAATATCCTTCT TACCACAGTCACTAAAGAACCAAGCTTAGGACTAGGACACACCACTGCAGAAAGAGCAGGGA GACCAGACACTCTGGGTGAGATGATGATTTTAAATGCCGAGCCGACACCCACA
WI-8044	107 C A	---	---	CACAACATTCAGAAAGTTTCTGCAATGTGCTTCTCTGATGTCTAAAAGATTTGAGCTTTGACTAT ACGATTTCCACACTGAACGATTCATAAGTTTCTCC[C/A]AGTATGGATCTCTGATGATTAATA AGCCCCGAATCTGGCTAAAGGCTTCCACATTCAGACATTTGTAAGGTTTTTCTCCAGTGTGGAC TCTCTGGTGTGCAACAAGATGGAACCTCGGCTGAATGCTTTCCACACT
WI-8550	32 G A	GGGAACATCA ATGCAACAAG	TTTGTGGCTTG AGTTTACAAAT T	CTTACTACATGGGAACATCAATGCAACAAGTA[G/A]AATTTGTAACTCAAGCCACAACTTAGTTA ATAATCATGGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA
WI-8057	87 T A	---	---	TATTAGATAAAACCCCTTTGTTCCCGATTGAGGATGTTTAAATTTGCTTCTCTTTAACTCTGACTTTT CCTGGTTCAAAAGGACAGTTA/GATGGACAGCAGCAGGAGGTGGGGTCTGAAAAATGTAATCTTT GTGTCAAGGCACCTGTGGCTCACAACCTGCCCCCTGTGAGAGGATGCTGCCCTTCCAGCCCTAAAG ACACTAGGGCTTTTCAATGGACGGGTGTGAAGCAGCCAGATGGTAAGG

WI-6192	91 A G	GACTGCTAAG GATTTAATTTG TAAAA	TGAAGTGTAG ATGGCTAAGTA TAAAA	AAGAGGAACAAATTAGCTCAGTCCACATGATTGGCAGTTGGCATATTCTAGTGAAGCAAGTGTCT GACTGTAAGGATTTAATTTGGATJAGJATTTAATACTTAGCCATCTAACACTTCAAGCATAAC AAGTGATGTGCTCCTCACAAATACATTTCTCAAACTCAAAACATCATGCTTGAATATCACTGAACCTT GTCACCAAGAAGTCACATGGCAATGATAATAAGAAATJATGCGAGACTACACTCTGAGGATAG AGCTCTAAAGAGTAAAAACAATGGAATTTGGAAAAATAGGAGTAA
WI-6194	105 T A	CACATGGCAA TGATAATAAA GAAA	TCTATCCTCAG AGTGTAGTCTG CA	CATATGCTGCTTATTTCTGTAAGGATACACTGAAACGTTAGATGATAATAGCTAATGACAGAATGT AGAAATGAGGCATCAGCTTCTCTAACCACTCCTACAAGAATGTTAGTATGTTATGTCATTACATGTTT ACTTTTGATAATTGCTCATTAATACTATGTC/ATATAATAATGTAATAACAGTAAGTAGGTGATCC TGCATTTACAGTAAAGCGGTAGTGGAAATCCAGATTTCTCTTGAGGAAAA
WI-6213	164 C T	---	---	CGGGTTAAGAAATACCTTTAAATTTAGGTAATAAAGCTCAAGGAGGTGGGCTGTCATCTGTGGTG TCAGTCTTCTGGCCCCCTGGCTGTCAGTGTGCTCCAGGGCTTGACAAGCAGCTCAITTCAG[C/T] GGCCACCATGGCCCTAGGGTCTGTCACAAGTCCAGCAGCAATCATGGCGTTCGTATATCTGATCC AC
WI-6217	131 C T	---	---	ATAGTCTTTATTTGTAACGAAGGCTACACGGGATCACTTCGGTTTTGTTTTATGCTTTTTTTTTCT TAGAAGGTATCTACATCTGCAITTTATTTACAGCCTTGTGGTATTTACACAGTCAAGATACAGTGTTA GAAACACAAAAGTGTGGAGAAAAAACTTCTCAAAATTTG/AJGTTCCAGACTTCAGGAAAATGATT TCCACATGGTAAGGCCAGAGTCTCCAGTGTGGTTCATCCAGAAAGCAGCTTG
WI-6238	175 G A	---	---	CTTGATTTAATCAGGGCTTTGGGGTCATAGGGGATTAGTCACTGTACAGTCATAATAATGCATTTA TTCAGGGAACCTTTAAT[C/T]TCTTTGTCCTCCAAAAACAGCTGTGGAACACCTCAAAATTA GGGATGTTTCATCTAAAACACCTTTACTGAACTTGATTCCTTGGCCAGAGGAGTGCTTTACTGTAG CAGAGGACTTAATGCAATGCCTATTCGGGCAATAAATGAATACTTGATGCATTCATACAGGCAAGAA TCCCAGCATCCAGAGAAGCTGTGTCTG[C/A]CTGCAAGCCATGGCTGCAGACATCAGGGAAGCT GGTGCAGTTCTAGTCTCGCCTCCTCGATTCCCTGCCAGCAGTCTCCTCTCTCATCTTCTTGCCCC TCTG
WI-6303	96 G A	CCAGAGAAG CTCTGTCTGC	CAGCCATGGCT TTGCAG	ATGCTTTTGCATGATTCTAATTATTGCCCTTTTTCAGAGCTCTGCTGGTAAAAAGTGGGTGCCATACA AACAGTCCCTTTTCAAGCCCAGCGTGTGCATGTCATCCTGCCAATCAATCACTGTATGTCCATTGTCCA AACAGGTCAACCGTGTCTCCATGAAAAAAGTGGATAAAGAGTTGCTGATAGTGT[C/T]CTGGTT CTTCCCTTTACATCTTTTGGGGGA
WI-6315b	193 C T	---	---	ATGCTTTTGCATGATTCTAATTATTGCCCTTTTTCAGAGCTCTGCTGGTAAAAAGTGGGTGCCATACA AACAGTCCCTTTTCAAGCCCAGCGTGTGCATGTCATCCTGCCAATCAATCACTGTATGTCCATTGTCCA AACAGGTCAACCGTGTCTCCATGAAAAAAGTGGATAAAGAGTTGCTGATAGTGT[C/T]CTGGTT CTTCCCTTTACATCTTTTGGGGGA
WI-6315	187 T C	---	---	ATGCTTTTGCATGATTCTAATTATTGCCCTTTTTCAGAGCTCTGCTGGTAAAAAGTGGGTGCCATACA AACAGTCCCTTTTCAAGCCCAGCGTGTGCATGTCATCCTGCCAATCAATCACTGTATGTCCATTGTCCA AACAGGTCAACCGTGTCTCCATGAAAAAAGTGGATAAAGAGTTGCTGATAGTGT[C/T]CTGGTT CTTCCCTTTACATCTTTTGGGGGA

WI-6375	28 A G A A	GGTTTATTGCA TATGGAAATC	AATGTGAGATC TTTATTCTAAC CTTTTT	AAGGTTTATTGCATATGGAAATCAATAG[A/G]TATCTTTTACAAAAAAGGTTAGAATAAAGATCTC ACATTTGTAAAGGCACATATGAACATTTTATAGCAAGCACAAAGGCGAGTGAGACATCAACAA TTGTGCTCAACAGATGAAATTCATAACCTTGTCTTCTGATAAGACAAATTCAAACATACAAATCAAT TACAACATGTGCTTATCAGCTCCCTCCACCCCTATATTTAA[T/A]GCAACTGACAGTTTTTGAAG GACACCAAGACAATAGGGCT
WI-6409b	112 T A ---		---	TTGTGCTCAACAGATGAAATTCATAACCTTGTCTTCTGATAAGACAAATTCAAACATACAAATCAAT TACAAC[A/T]ATGTGCTTATCAGCTCCCTCCACCCCTATATTTAATGCAACTGACAGTTTTTGAAG GACACCAAGACAATAGGGCT
WI-6409a	73 A T ---		---	CTAATATAATCCTGGGCACATGGATCCCAAGAGAGATTTTGCAGCAGATTTTCATTATAGTTACTTAA CAGCTAAATAATAAGGGTGTAATTAACCTTACAGAGTCACATAATAATGGAGGGGAAAGGAAA GAGTAGGGCTAATCCAGTAGAGACTGAAGCTG[G/T]TATCAACCTTCCCTAAGCATCTGTCTGGTCCG CAGC
WI-6523	165 G T GCTG	GCTAATCCAGT AGAGACTGAA	AGATGCTTAGG GAAGGTTGATA	TCCTCTAGCCCTATTAGGCTACACTGTAGTCACCTTCTATGAGCAAGGGAACAGGAAGATGGGC TCCTGGAGTCCAAACAGGATGTGGAGTCCCTGGTAGTTCTCTTTTCACACAACCTTTCCCTGAGA ACTGTCCAGTCAGGTGGACCTTCACAACAACACGAACTCTGAGAGAAAAAC[C/G]CTG ACTTTACAGAAAGCATAAAGCTGAGAAAAA
WI-6554	195 C G ---		---	ATTGTAATTAATAATTACATGGGCCTATTTTAAAGGACATTTGTGTAATGTTCCACTTTGTTTTAA [C/T]AATTACAAACATGTGGCTTAAATAATGTACAGATCAATGTAAACAAGTTTGAAAAATGGCG
WI-6558b	68 C T ---		---	ATTGTAATTAATAATTACATGGGCCTATTTTAAAGGACATTT[G/C]TGTAATGTTCCACTTTGTTTT AAACAATTACAAACATGTGGCTTAAATAATGTACAGATCAATGTAAACAAGTTTGAAAAATGGCG
WI-6558a	42 G C ---		---	AACCAACAAAACTAAGAAATGGGAAAAAGAAATGGCAGGTGAAGAACTCTTTTCAGAGAAATAAA AGTTGTCTATA[T/C]JAGCAATGGATGCTGTGTGTCAGAACATACTGCCAATAAATTTAAGAAAAAAGGA ACTCAATGAAGTTACTGTTATATAAAACAGGAGCTCACAGCAGGATGTAAAGAGTTAATGGAAGAT ATCGTGAGCCAAAAAC
WI-6629	75 T C GTCATA	TCCTTTTCAGAG AATAAAAGTT	TGACACAGCAT CCATTGCT	CTGCCCTGAACCAATCAGATTTAGTTTAAATCAAAATCAAACTCCAGCTGTTCTCTTGCTTTT TTACTTAGCAAAAGGAAAACTTTAGTGAATGCTACTTGACAAGAAAGAAAGTCATTTCTCAAGCACAC[ T/C]JACCCAACTTGAAGGTGATTGAACCCAAAATAATGGTGGGAAACACCAAAATGAGGTGGAGGA ATGAGAAAGATGTGTGGCCAAAGCTATCTGGTTATATTTGATGTTGCCAAT
WI-6644	134 T C ---		---	TGCTAAACACACCACCATTTAATGAAGAGAGTACTAGGAAAAAATACCAACACAGCATGTGAACAGT TGGGCACGGTGGTAAAGGGCACAGACTCTGGAGCCACAGC[C/T]GGCTAATACACTGCAATATTTTA TGTTAGCAATTAGCTGGTCTGTGATACCCAGAAAGAGCGGTATCTGG
WI-6690b	106 C T AGCCACAGC	CAGACTCTGG	TGCACTGTAT TAGCC	



WI-6690a	28 T C A G A G	AAACACCACC ATTATTAAGG	GCTGTGTTGG TAGTTTTTCCT	TGCTAAACACCACCATTATTAAAGGAGAGT/CJACTAGGAAAAATACCAAAACACAGCATGTGAAAC AGTTGGGCAGGTGTAAGGACAGACTCTGGAGCCACAGCGGCTAATACACTGCAATATTTTA TGTTAGCAAATTATAGCTGGTCTGTGTATACCAGAGAGCGGTATCTGG
WI-6770	53 A G A A C A T C A C A	CAAAACCCAA AACATCAA	GCITTTGGAGT GTATAATAGTA	GATGTTTAAATGACACAGATCTTCCCAAAGTAATCCAAACCCCAAAACATCACA[A/G]AATTTATTCAT ACTATTATACACTCCAAAGCAAAATACTTCAACTGCAATCC
WI-6686	151 A G A	GCAATCTTCCA AAAACAAAGA	CCTTGTAAGTG ACTATTCCAAT GTT	ATTCTGTAGGCAAGGTTTCAGCAATCAGCTAGCACTAATCTTGACCAATGGGTGAGTCAGCCTCA TCACAGAGATTTTTTTTAAATTAGATGAATTTACATTTTAAAAACATGGTAACTCCAAAGCATTCT TCCAAAACAAAGAAAT[A/G]AACATTGGAATAGTCACCTTACAAGGAC
WI-6761	32 C A G	GATCTAACAG CTGCAGAATG	AAAAGCTGGG AAGGAAGAAG	CCTGAGAGGCAGATCTAACAGCTGCAGAAATGG[C/A]CTTCTCCCTCCAGCTTTTGTGAACAAAAC AATTCCTTAAGGCATCAGAAAGCACTGAGTGCAAAATGGGTGTTTCAGGTACAAAGGTCTC
WI-6844	225 T C ---	---	---	TAAATACTGCCAACTAGCATACGTCCTCTTGATCATATTAAACAAAGGGTATTTCTCCTTG GTATTTTCAAATGATGCATTATACAATAAACGAAAGTTAGAACCTTAAATGCACCCTGATTAATTATG TAACTGGTAATTTGTTTTAAAGCATAATAATTTGGTCTCTTTCATAAAATGGAAATTTAAA TATTTCTGTAGTCTTGAGGT[C/A]ATCATTAGTAGTGCAAGGTG
WI-6824	112 A G ---	---	---	CGGTTTTGCTACACTTAATGGGTTTTTTTTAAGGGATTTTTTCAGGTCTTGTCAGCAACATCAA ACAAAGGTACTGAGTACTCCACAGGTACAGAGTCTGCCAA[A/G]ACCTTAGAAAAATTACAT GACACGGAGAAATGCGCTCTTGCTCTTGAAGAGCTACAGTCTAGGGATTTGACAACTCAGAGT CTTAGGAAGTGGCAAGTAAGGCAAAATCTTCATCCCTAGAGCTATTGTG
WI-6889	139 T C A A T T C	GAAAAATGAG ATGCAGTTAA	TCACTTTGTGG CTTTTAATTAT TCT	GTACAAAAAAGCTGAGAAAGAGCCAACTGGAAGTGTCAAGAAACATTTCTGATAGTACGGACAA AAGAGCTCCTTCAATCAAAAGGAGTTACATATTAGTTCTCACCATGCTAGAAAAATGAGATGCAGTTA AAATTC[C/A]AGAATAATTAAGGCCACAAAGTGAAACTGTTGTTCTGGGGCCCTATGTTGTAGATT CTCT
WI-6911	216 T C ---	---	---	TCCCCAGCTCATATTTATTTGGGCACAGAGTGGCACTCAATATCTGATGAACTTGATGAACCTGAA AAGAGGTCTCCTTAAACAAGATATCATCTCCGAAGAGAGAGTCCCAACCATATAAAATGATGAT CAAGTCCACAGAAAACTTTGCCCTCCCAAGGAATGTGTTCTAATTTGGTTTCAAAGCACACTGGTTCC CACTTTTACCACCTTT[C/A]CATGACATTGGACAATAGTACTACTCTTTCTAC
WI-9413	112 G C ---	---	---	GCCAGTCTCTAGTAAGTCTCTAGGGACATGACCAGACCAGAGCCCTGTTCTATATGAAGACAAAC AGGTGGCCATACCTTGGTGGAGGATACCGCTGCTATTOCCAGATG[C/A]AGATTGGTGGGAAGGAG ACCATGACAGATGACAAACGGAACAGTTTCTCAAAAACAGAGGTATGA
WI-9557	74 C T ---	---	---	AAAAGCTTTAAAAAAGTGGTGTCTATCTTTAGAAACACTTTCAGCAAGATCAAGTAGCCCCAGCT ACAGCCT[C/T]GGTGCACTTAACCCCTCTCCTTTT



WI-9617	37 G T ---			---	TGCTCTTTTATTTACGTTTCACAACACACGCGGTG[G/T]TGGCACAGTCTACCAAAGTGCCCGCAG CGCCAGCTTGGCCGGAAGGTCTCATTTCTGTTCTCTATGGACTGATTGAATTTGGGATGGCCAG CTCCAGAAATGTTCCACGTGGGGGCACTCTGTGGGCAGAGAGGCTGAGCCCTTGCCACACACTGGCACCA AAGAGTTGCACGATGCAGCTTGCAGTGGGTCCAAAGCGGGTGTGCTGTG
WI-9657	121 T G ---			---	AATGCTGGAGAAAACATCAACATTGAGTTGACATTTGTTTGTCTGAAGTATAGTACCATCCACTAT CATGAATTTTGTTCATTACAAATGATAGAAAAGCCAGATTCTCAAAATAAAGT[G/A]TAAATTCCTT TGTAATAATAAATGTTTATAAATGTTTATGAAGCTCATTACATTATCTTTTTTAAAAAAGTAAAAA TTTTAGAACATATGACGCTTTTCATAATTAAATGCTTTTGATATAGATTGAGG
WI-13119b	114 G C GCTGGGA	CCTCCCAAGTA		AAAAATTAAC CAGGTGTGGTG T	CAGGGTCTTGCTCTGCTCCAGGCTAGAGTGAGGTGACACAATCAAGACTCACAGTAGCCTCAACCT CCTATGCTCAAGCCAGCCTCCCAAGTAGCTGGGACTACAGGCATGT[G/C]ACACCACACCTGGTTAA TTTTTTAATTTTTTGTAAAGATAGGGTCTCACTATGTTGCCCGTCTCAAAAAACAACCAACTAAC
WI-13119a	51 C G ---			---	CAGGGTCTTGCTCTGCTCCAGGCTAGAGTGAGGTGACACAATCAAGACT[G/C]ACAGTAGCCTCA ACCTCCTATGCTCAAGCCAGCCTCCCAAGTAGCTGGGACTACAGGCATGTGACACCACACCTGGTTA ATTTTTTAATTTTTTGTAAGATAGGGTCTCACTATGTTGCCCGTCTCAAAAAACAACCAACTAA C
WI-13112	71 C T AGCTTTT	TCATAAAGAC TACAGACTTA GTGTATTATAT		TTAGAAATTTT GTGTATTATAT GGAAAAAG	ACAGGAATCTGAAAGTTACCAAGGCAATTTCCCTTTTAGGATCATAAAGACTACAGACTTAAGCTT TTTT[C/T]CTTTTCCATATAATACACAAAATTTCTAAATATCCTTAAAAAAGAAAAATATAAATAGT TTCAGTATGTTATGTAGAGTCACATACATCTATGGCAAAAATATTTTATTAATTGAGGGAATAGGCCAAT TT
WI-12988	36 C A CTCAGTACAA	TGGTACGTGCT		CAAAAGTGTA CTACTGATGCT GTTT	TGTTAACATTTTATTGGTACGTGCTCTCAGTACAA[G/A]AAACAGCATCAGTAGTGATACACTTTGAT AAAAAGGAAATTTTAGCTTAGTAGAAAAGAAAGCCCAAGGTCAGAAAGTATAATGAATATGTACAT CTTTATGGAAAAGTGTGTTGTGTGACCATCTTTATCTTCCCTGTGGATGAGATGTATGCACACACAAGT AAA
WI-13020a	108 G A CTTT	CTAATAGTGG AACCCTGAGA		CATTATTAAAC CCCTTTCAGA	TGCTATTTCATGACAGACACGTCAGACAAAATATTTCTATTTCAGATGGAATAGACCCAGACATTA TTCAGTACTTTAACCACTAATAGTGGAAACCCTGAGACTTTA[G/A]ATCTGCAAGGGGTTTAATAAT GCAAAATACACATATAATTTCCATTTTAAACACCATATTTAAGTTTCCATTTTCTTAATAGAAAATGA TAAAAAATGTTTCCCAATAT
WI-12837	87 A G AAAGTCCA	CCATATACAT ATATCAAGGT		GCCATAGGAA ATGCTGTTTT	TGTATAAAAAATCCAACTTGTTCACAAGTACATATGTCTATGATTTTATGCATACATCCATATAC ATATATCAAGGTAAAGTCCA[G/A]GTACAAAAAACAAGCATTTCCATGGCCAGTGTCTACAGAAAGT AAGACTGTGCAAACTTTATCGTATAGTCAAAATGAGATTGCACACTAAGGCAGGATGAGGCAAGCA AGTTGTGTC

L42611b	50 G C ---			GTCTCAGGCCCTTCTGGCTGCAGAGCCGCTTCTCAGGTCCTGTG[C]GCTCTCCTGGCCTCTAG TCTTCCCTGCTCTCCGAGGTAGAGCTGGGTATGGATGCTTAGTGCCCTCAGTCTCTCTGTCTATACCT GCCCATCTGAGCACCCATTGCTCACCATCAGATCAACCTTTGATTTACATCATATGTTATTCACCA CTGGAGCTTCACCTTTGTTAC
L42611	34 T C ---			GTCTCAGGCCCTTCTGGCTGCAGAGCCGCTT[C]GCTCAGGTCCTGTGCTCTCCTGGCCTCTAG TCTTCCCTGCTCTCCGAGGTAGAGCTGGGTATGGATGCTTAGTGCCCTCAGTCTCTCTGTCTATACCT GCCCATCTGAGCACCCATTGCTCACCATCAGATCAACCTTTGATTTACATCATATGTTATTCACCA CTGGAGCTTCACCTTTGTTAC
WI-1172b	179 C T A	TGAAGAAATG GCTGATACCA	ATGTGCAATTT TCACTGCAG	TGAACGTGTGGTTAAACTAGGCAATTGGTTAAAAATCAATTTAAAAACAGGCCCTAGAAAAACAGTG ACCACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAATACCATTTTCTGCTTTC AAAAGAAAGACATGAGGGCTTCTTGAAGAAATGGCTGATACCAAG[C/T]CTGCAGTGAAAAATGCA CATGATGAGCCTGGAAACATGTTGT
WI-1172a	17 C A ---			TGAACGTGTGGTTAAAG[C/A]TAGGCAATTGGTTAAAAATCAATTTAAAAACAGGCCCTAGAAAA GTGACCACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAATACCATTTTCTGCT TTCAAAAGAAAGACATGAGGGCTTCTTGAAGAAATGGCTGATACCAAGCCCTGCAGTGAAAAATGCA CATGATGAGCCTGGAAACATGTTGT
WI-1177	35 G C A	GCAGATTGGA AGTGTGAAAA	CACCTACATTT CTGAATATTTA GACTCTTT	AGAGGCAGATTGGAAGTGTGAAAAAATGAAAGAA[G/C]AAGAAAAAAGAGTCTAAATATTCAG AAATGTAAGTGTGCCCTCAACTGTTCTTACCCTAAATCTGCAATTTGAAAACTAGATTGAAT TCCTTTGCAAAACCCTTGCAATCATGGATACCCGAGTTAAACCGTTAATTTAAAGACATTAACATGG CCTGGTG
WI-1231b	141 G A ---			TCCATGGTTTGGTTGCTACTGACTTTGTTAGCCTTACTGCCCACTATGCATTGGAACATCCCATATTC CAACTAAGCAGGAGTGTTCACAATAAACAACATAGGCTCTTTATCTCCTCTTTTCAIT[C]TAATTTT TCAC[G/A]TTATCCCTCACCCCTGAACGCCCTTCTCCTTCGTAGTGACATTTTAAAAATCCACTTTAC ACATTCGGACC
WI-1231a	126 T C A	GGCTCTTTATT CTCCTTCTTTC	CGTTCAGGGTG AGGGAATAA	TCCATGGTTTGGTTGCTACTGACTTTGTTAGCCTTACTGCCCACTATGCATTGGAACATCCCATATTC CAACTAAGCAGGAGTGTTCACAATAAACAACATAGGCTCTTTATCTCCTCTTTTCAIT[C]TAATTTT CTTTCACGTTATTCCCTCACCCCTGAACGCCCTTCTCCTTCGTAGTGACATTTTAAAAATCCACTTTACA CATTCGGACC
WI-472	114 G C ACAGAAAAAG	ACATACATAT CCATTATACA	GACCTTCTTT TCCAGCCC	GAAGGCAGGACTGTGTTTGGAGGACAAAAAGTAAATCTTTTATATCTTTATTTTAAATTTATT TTTTTTCAGGCATATAGACATACATATCCATTATACACAGAAAAAG[G/C]GGCTGAAAAAGAAAG GTCAAGTGAGATTCAGATATTTCTTAATGAAGGCTGACAAATTTGGGCTTGATT

WI-478	46 C T	GCATGTCTGTG T TACTCTATTT	AAATGCCACAG GTGGCT	AAACCACTGCAACCTTCAAGCATGCTGTGTTACTCTATTTTGTTC[C/T]AGCCACCTGTGGCATTTC CAAAATATGATAATCTCTGCCACCATACTGCTTTAAACACAAATAGAATCTGGCAGCAAAATATAGC ATAAGCTTACTTCTAAATCAAAAGGCTACCATCAGTACCTTAGCACATTTAAAAAATAAAAAACCAAC ACTGCCCA
WI-533	29 T C	ATCACAGCAG AGTACCTTTCT	CCTTCCAACCT CTACACAATCT T	AGCCATCACAGCAGAGTACCTTTTCTAACT[C/T]ATAAGATTGTGTAGAGTTGGAAGGAGGACAGGA CTGTTCTGTGTTGATAATGACCCTGTGTCCAGTTAATCCA
WI-601b	112 T A	---	---	TCACCTTATCTCTTTTTTGTGGTGAGAACACCTTAAATCTAAGAAATGATCAATTTCAAATAAAGATGG TAGTGAGCGAACAGAGAGGTTTCATTGACTCTCTAAACTGAGTAC[T/A]CAAAAACGAGCAGGTGCT CACAGTCAGGAAGCAGGTGCTGAGTACAGGAT
WI-601a	74 C T	---	---	TCACCTTATCTCTTTTTTGTGGTGAGAACACCTTAAATCTAAGAAATGATCAATTTCAAATAAAGATGG TAGTGAG[C/T]GAACAGAGAGGTTTCATTGACTCTCTAAACTGAGTACTCAAAAACGAGCAGGTGCT CACAGTCAGGAAGCAGGTGCTGAGTACAGGAT
WI-863	107 A G	CTCCTTCACAA CCTCACCA	CTTCCCGGTAA GCCAAGT	AACAAAAACAGACACCCCTCGGCTTCTCTCACGAGTCCACATGGTGCCAAACAATCCACATTCCCT ACATCTCCCACTGGGCTGCCTCTTCAACACCTCACCA[AG/ACT]TGGCTTACCGGGAAGCATAAA GCCAAGCATTTAGTCTTTTATTGCAACATGGTCTGGCTGCAATAC
WI-919	36 G A C	ACTGCTTGCTT GTTGATTTAAT	TTATTCTAATC CCACATGACAG C	ACTCACTGCTTGCTTGTTGATTAAATCAACCTAGCC[G/A]GCTGTCATGTGGATTAGAATAAAATA AACACAAAAATGAAAAACACACGATTGCTAAACAAAGCAGATTCTTTTTTCAAGGCACACGTAAGAT AATAACTTCAA
WI-991	37 A T	---	---	TGCATTATTATGCACCAATAATAACTCTGTACAT[AT]CATTATTGTATTCTTCAATATCACAAAAAT TATGAGTGAGGATGATTGTTATCCCTATTTACAGATGAGAACACATGAGACTTAGAAGAAGTATCT TTCCCAAAGTCACAAAGTTAGTGACAGAGCCGGGATTGGAATCCATCAACTTGAATCCAGAGAAAAAT GTTCTGCATCACTGTACAACACTGACTCTCTTTTCTCCTTTGAAAAACAAGGC
WI-1011	70 G C	CAGTATCTGA AGTTTTGTCT	AGGAACACCTA CAAAATGACTT CT	CTTCTGACCTGTTGCAGTGGATCTGTTTTGAAGGCTCTGCTCAGTATCTGAAGTTTTTGTCTCC A[G/C]JAGAAGTCAATTTGTAGGTGTTCTCTGGGCGTTTTTGTCTAGCTTTCCATTTCTCTAATACACTGC CGTCTTAAGGGAGGCTTGACAGGCAATTAACAGATGGCTGTTTGTCTGCTGCTGCTGCACTGAAG
WI-5381	178 A T	---	---	TTCATGCAGAAAGGTCCATGATTACAGAAATCTCAAGGAAGAAAGGCCCTAGAGATGACACCAGAA ATGAGAGTGGCTTGCTCATGAAAAATGGACAGCATGTTCCAAAGCAGAGGGAACAGCATGGAGAAGA AAAATCATACTCTATCCACGTGCAGAAACTGGCAATTAGTTTTGT[AT/TT]TACTAAAACACAAATGT TTAAGTTGGGGTCCACAAACAGGATATGTTGGCAATGGTATTTCTGTGATG
WI-5791b	76 G A	---	---	CTATGATTCCATCTAGCAAAAAGCAAGACTATTGGATAAGTTTCACAAAGATGAGAACAGGTCCTA GAACCTCAG[G/A]ATCGAAAAGGAAGTTTCATCTAGTCCATAGACCTTATCTCACTGACCCAAAAGTA AAAAAATAAAATAAAGTAAAGAACTTACATCAGATTGTGCATTCTTATTGCCCACCTGTTTGT TAGGAA

WI-5791a	44 C G ---		---	CTATGTATTCCATCTAGCAAAAGCAAGACTATTTGGATAAGTTT[C/G]ACAAAGATGAGAACAGGTC CTAGAACCTCAGGATCGAAGGAAGTTTCATCTAGTCCATAGACCCCTATCTCACTGACCCCAAAAGGTA AAAAATAAAATAAAAGTAAAGAACITACATCAGATTGTGCATTCTTATTTTGGCCACCCTGTTTGT TAGGAA
WI-5406c	120 C T ---		---	CACTCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGAGCCACTTCCACAGATGCAACAGGCC TTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAAC[C/T]TATGAGCCAC ACTTCTCATTTCCCTTAGAAATTTCTTGGACTCTGTGAAGAGGAAGGAAAGGAAAAAGAGAGGCAA GG
WI-5406b	118 C A A	CCAGGATGTC AAGGTGAGAA	AATGAGAAGT GTGGGCTCAT	CACTCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGAGCCACTTCCACAGATGCAACAGGCC TTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAAC[C/A]CCTATGAGCCAC ACTTCTCATTTCCCTTAGAAATTTCTTGGACTCTGTGAAGAGGAAGGAAAGGAAAAAGAGAGGCAA GG
WI-5406a	42 A G ---		---	CACTCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGAG[C/G]GCCACTTCCACAGATGCAACAG GCCCTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAACCCCTATGAGCCAC ACTTCTCATTTCCCTTAGAAATTTCTTGGACTCTGTGAAGAGGAAGGAAAGGAAAAAGAGAGGCAA GG
WI-5798	48 G C T G	TTATTCTCCC TTGTTTCTTT	ACTGTTAGAAA ACGAGTATTTT TCAAT	CCATTCCCTTCTCCTCCCTCTCCCTTATCTCCCTGTTTCTTTT[G/C]ATTGAAAAATACTGGTT TTCTAACAGTGTGCTGGTATGGATACTAIGTTATAACATGCATAGTTCTATATGGGTATCA
WI-5415	54 T A TTT	TCTTCATGAAT TCATCTTTCAG	GGACTAATTCA TGATCCGATCT	CCTGCTAATAATAATTTAAGCACGATTTGTCTTCATGAATTCATCTTTCAGTTT[T/A]TAGATCGGAT CATGAATTAGTCCAGGCTTTTAGTTGTAATCGAAATTGGA
WI-5437	41 C T G	TCCAGAGAA AAATCCAAGA	AGTTTCTAAAC ACAAAATATG GTTTAAG	TGTTTTAACCCAGGCAGACCTCCAGAGAAAAATCCAAGAG[C/T]CTTAAACCATATTTTGTGTTTA GAACTCCTGTGGCAACCACTCTTGATGTGAGTGAC
WI-5481b	131 A G CTGCAGTCG	TGTCATTATG	TTACTTCCAGG CTCCAAGTAT	AAGCCAAATTCACATTAGTTGATGAATTTGAATTTTACAGTATCTAATGCATGGGCATCTGTTTCAAC TCTCTGTTTTCAAGAGGTAGTATATGTCTGAAAAATCTATTTTGTCAATTTATGCTGCAGTCG[A/G]A ATACTTGGAGCCTGGAAGTAAAGACTTGGCTATTTTCACAATTA
WI-5481a	29 G A AATTT	CCAAATTCAC ATTAGTTGATG	CCCATGCATTA GATACTGTAAA ATT	AAGCCAAATTCACATTAGTTGATGAATTT[G/A]AATTTTACAGTATCTAATGCATGGGCATCTGTTTC AACTCTCTGTTTTCAAGAGGTAGTATATGTCTGAAAAATCTATTTTGTCAATTTATGCTGCAGTCGAA ATACTTGGAGCCTGGAAGTAAAGACTTGGCTATTTTCACAATTA
WI-5492	38 T C ---		---	TCATGAGTCTTTCTTCAAGATGCTTGTAAAGTCCCA[T/C]CAAGAAAGGATCCCATGGCCTAAT GAAGATGTACCTCCACCCTTAGGATATTTTGCAGACCAA

WI-5826	134	T C	---			TAATTTTTTTCTCAATTCCTGGAGCACACCATGCTCTTTCTATTCTATGCTTCACATTTATTTTTT TTTCACCTAGTTAAATGCTTTTCCCTTGATCTAGCAATGGCCAGTTTATACATATCTTTAGT[C] TTTCAAAATTAATGCCACCATAGAAATAATTTCTAACCAACGCAACAGCCTCACTCTTCCCTT CCTTGGTGCATTTACICTTTACAC
WI-5546	40	C T	A	CCCAATACTTT TTCAGGTGAA		CCTTATAACCCCAATACITTTTCAGGTGAAAAAGGGAAAA[C]/TACCCCATGTTTGCCTAAAAATACAGG AGTATAACAGCATGACATGTTAAGGGAATTACAAATGCTTGAGTGTAAATCTGATGTGGGAAATAT TAGAAAATTAAAGCGAGAGAGGCA
WI-5552	97	C T	TTT	GGCACCAGCCT TTT	AGGT	TGTTGTTCTGCACCTCCCCAACAGTGGTCAATGAGCCTCAAGGGTTTGTGAGCGGGTATGGGT GGGGCTATCGGCACCAGCCTTTTAGAGT[C]/TCCCTGGGCAATTTGTGCACCTAGTGTGAGA
WI-5836b	161	C T	---			TAAGTTGATTTAAACACTCTGTGCCTCAATTTTCTACCTATAAAATAAGATAATAGTATCTAAAA AAAAGAGAGAGAAATTAAGTGGATAGACATGAATACTCTGATGACTGGTTGTATCCCTGAA TCCTGCAATATACACATGATTCATGAT[C]/TCCATTTTGAAAAATTAAGCTTTTGAATTTGTTTCCA ATG
WI-5573	58	C T	AGGTGGGA	GTT	ATAAGG	TCGGGTATTAGGATCGTTCAACCCTCGATGATGGGGTTCATAAGGAGGTGGGA[C]/TGACAC ATTACTCTCCAACTGTTTCATCAGAACACTTCAACAGCG
WI-5850b	134	G A	---			CAGGACCTTGAGCCCTTTGCTGTTTGCTCTTCCACCCCTCACTCTTCTCTGCTGCCATGGGTGGAGC CTCTCTCAGGCTTCCCTCTATGCA[C]/TGGGTCTATCTTCTATATGGGGCAATATCCCAATGTCCTTC[C]/A TTTTGGCCATTTCCCTGTATATCAAAACAGAGAAGCAGAGGGTGG
WI-5850a	92	C T	---			CAGGACCTTGAGCCCTTTGCTGTTTGCTCTTCCACCCCTCACTCTTCTCTGCTGCCATGGGTGGAGC CTCTCTCAGGCTTCCCTCTATGCA[C]/TGGGTCTATCTTCTATATGGGGCAATATCCCAATGTCCTTCG TTTTGCCATTTCCCTGTATATCAAAACAGAGAAGCAGAGGGTGG
WI-5612b	125	A T	TTC	CTATTAATGA GCATCGTGCA		TGCCTGATTGACACATAGTTATCTGACAGTAAATCAATCTAACATCACAATAATCTTATTCTGCCTG TCACACTAATTTGCAAAGCATTCATTTGATTGACTAATTAAGCATCGTGTCTATT[C]/ATTCAGTGT TTAGGTTTCTCAAGAGAAATATGCTGTTCTTCTCTGTAACCTCAAGTA
WI-5612a	44	T A	---			TGCCTGATTGACACATAGTTATCTGACAGTAAATCAATCTAACATCTTATTTCTGCTG CTGTACACTAATTTGCAAAGCATTCATTTGATTGACTAATTAAGCATCGTGTCTATTCCACAGTGT TTAGGTTTCTCAAGAGAAATATGCTGTTCTTCTCTGTAACCTCAAGTA
WI-5636	26	A C	CCGCAATAAA	GC	CAATTTAT	TGAGAGCCCAATTTATCCGCAATAAA[C]/TCCCAAGTCTCGATGGAGGCAATTCAGAATCGGG GCAGGGGAGGCAGAGGTGAGACAGATGTGAAGAAC

WI-5865c	103 C G ---			---	TTAGAAACCTCCATTATCTGCCATGGTACATCTTTTAAAGAACTCTTTTTCATTATGCATTG ACTGACTCACTCACTGCTCTATCAAAAAATTAA[C/G]AAATAATTAATATTTTATTTACAGAGGAA CTCAGAAGCCAGAAAAAATGACCAAGACACAGTCCAGTCTCCATCTTCAAAAGGTCACAGTCTTCA GAGAAGACAGACAACTAAATAATCCAGG
WI-5865b	99 T A ---			---	TTAGAAACCTCCATTATCTGCCATGGTACATCTTTTAAAGAACTCTTTTTCATTATGCATTG ACTGACTCACTCACTGCTCTATCAAAAAAT[T/A]AAACAATAATTAATATTTTATTTACAGAGGAA CTCAGAAGCCAGAAAAAATGACCAAGACACAGTCCAGTCTCCATCTTCAAAAGGTCACAGTCTTCA GAGAAGACAGACAACTAAATAATCCAGG
WI-5865	165 T A ---			---	TTAGAAACCTCCATTATCTGCCATGGTACATCTTTTAAAGAACTCTTTTTCATTATGCATTG ACTGACTCACTCACTGCTCTATCAAAAAATTAAACAATAATTAATATTTTATTTACAGAGGAACTC AGAAGCCAGAAAAAATGACCAAGACACAGT[A/C]CAGTCTCCATCTTCAAAAGGTCACAGTCTTC AGAGAAGACAGACAACTAAATAATCCAGG
WI-5874	76 T G ACAGAAAA	CATAGCATGG ATAATATTAT	CCTAGTAAGTT TCAGTCATTGG ATATGT		CTCAGACATTCATTTTCATTAGTTGTTAAATTTTGTGTTATTTTCATAGCATGGAATAATATACAGAA AAAAAAT[T/G]TACATATCAAAATGACTGAAACTTACTAGTAGCAATTTGTTTGTCAATTTGCT CATGGAGCCGACGTTCAAGCTCTCAGTTTTTCCATC[A/T]TTTTTCATAATTTACTCTCTTTCTGTC ACAATGTTCTGCTTCGTTTCAACTCTCATTTGCTGATTGGATGGTAGTCATAAAAAATGGGTGATTG AGAAAAATAAGTAAATG
WI-5752	36 A T TTTTCCATC	CAGCCTCTCAG AGAGTAAATT	GACAGAAAAAG AGAGTAAATT	ATGAAAAA	TTAGCAGAAAAACAACAAAAAATGTCACAACACTGCAGTAAAGAGTGTTCCTCCGATAAATA[C/G]C CATTAGGTATTAGATAAGCATCCCATAAACATTGTTGAAACGAGCCGAGTTTCGATTTCACACA GTTGCTGTTTTAACCTCTCTAAATCCGATAAATAGCCATTAGGTATTAGATAAGCGTCCACGAAA CATTGTTGAAACGAGCCACGTTTTCCGATTTCACACAGTTAGTTGCTGTT
WI-5760b	61 C G ---			---	TTAGCAGAAAAACAACAAAAAATGTCACAACACTGCAGTAAAGAGTGTTCCTCCGATAAATACCCAT TAGGTATTAGATAAGCATCCCATAAACATTGTTGAAACGAGCCGAGTTTCGATTTCACACAGTT GTCGTTTTAACCTCTCTAAATCCGATAAATAGCCATTAGGTATTAGATAAGC[G/A]TCCACGAA ACATTGTTGAAACGAGCCACGTTTTCCGATTTCACACAGTTAGTTGCTGTT
WI-5760	187 G A ---			---	AATATCTGGCCTTTTCTCTTAGGAGGAGATTCTCACCATGGGAATCTG[A/G]TGAAGTTAGAT CCCACCTCACTATTGAGAAGCTAAAAGTGAAGACTACTCATTTCTCAGTCTCTTGCTG
WI-5944	52 A G GGAATCTTG	TTCTCACCATG GGAATCTTG	GGGTGGGATCT AACTTGCA		GAGTTTAATGAATCCTGTTCCCTCTAAAACCTCCTGTTCCCCCACTTCACATTACAGCATATT CTTTTCATGGGTTATTTGCCCAAGTCATGAGGAGATGCATGTAATGTGATCATTTCAAGAGTGTGAG TAATGCTTGGT[A/C/T]TGTCTGTGCGGTATCTGCTCCCAATCACCATTCCACTTTATTTCTCTATTAT GCTGAATGAAACGGTTATATTACAG
WI-5967b	148 C T ---			---	

WI-5967	165 C T ---				GAGTTTAAATGAATCCTGTTCCCTCCTAAAAACCTCCTGTTCCCCCAACTTCACATTCCAGCAGATATTCTTCATGGGTTATTTGCCAAGTCATGAGGAGATGCATGTAATTGTGATCATTTTCAAGAGTGTGAGTAATGCTTGGTACTTGCTGTGTCGGTATC/TGTCTCCAATCACCCATCCACATTTATTTCCATTATGCTGAATGAAACGGTTATATTACAG
WI-6093	53 G C ---				GGGTAAGATCCAGAGCCACAGGTGAACCTGCCGGTATTGAAGTCTTTGGGCA[C/G]GTCGTGTAATGATCTGACTTCTCCAGAACCCCTCTCTCTGGAAGTTCCAAGTGTGCACTGAGCCCATTTGTAGGGA GCATTTGAACCAAAACCCAGCGACACTGCTGACATTTGACTTTTCAGCAAACTTGATTGACGGGTGACACACATGCTTCGAGAAGGAATGAGG
WI-6141	80 T C AGGTACTT	CTTCTTAATTA AGCATCTACA			GACTCTGTCTCAAGAAAAAAAATTGAAAAATTGAATAATTAAAGCACCTCTTAATTAAGCATCTACAAGGTACTTA[T/C]CACTGTTCTGGGTTTTCAATCCTCTCACCTTTTAGACTTCAGGAAATCAGAAAAATGCATGAAAAACAGGATTGTTACATGCAGAGAAATAGGGGAGATAAAAAATTTGTCCTTTCTC
WI-6450	45 T G TGTACA	CCAATGACTT ATTCTATATCT			ATAGGACAGTTTTCTTCCAATGACTTATTCTATATCTTGTACAT[T/G]AGAAGTACCACACATTTCAACAAGAGCCAGGCTATGCCAGGGTGGATTATTTACGGTCAATGGTAATATGCATGTAAGACTATTTACTGGCCTTCTTTATGCATAAAACAAGGIATTGGICTATTCAACAACATGTGTCAATACAGCAGTTGTCATGTCCCTCTGGTACTAGAAATATAGTCTTTATAGAATATGTGGTTAGAATAAAGCCACACAATTATCTATAAAACAACA[C/T]AAGGAACGAGGCTCAAAAGTGGACAAAAACGGCCTTAGTTTC TAAGTGAAGACTAAGACGATATAGGAAAAATATAATCCGIGACCCTTA
WI-6461	88 C T ---				GAACTATCCTTTAGTGGTGCCACATTTCTATTCTGATCTTTGGTCACACAGGGACTTTCTGGGCTATGAAAATAGTCTATTGAGTGAAGTATCATATAAAGACATGCAAAAACCTTTTCACAGTCTTTGTCCTGG[G/A]AATATCTCACAAAATTAATTATAAATGGCATGCGACTTTCTGATTTAGCCTGACAGGATTGTCCTTT
WI-7466c	141 G A TTTGTCTGG	TTTTACAGTC			GAACTATCCTTTAGTGGTGCCACATTTCTATTCTGATCTTTGGTCACACAGGGACTTTCTGGGCTATGAAAATAGTCT[C/A]TTGAGTGAAGTATCATATAAAGACATGCAAAAACCTTTTCACAGTCTTTGTCCTGGGAATATCTCACAAAATTAATTATAAATGGCATGCGACTTTCTGATTTAGCCTGACAGGATTGTCCTTT
WI-7466b	80 T C GTC	GACTTTCTGGG CTATGAAATA			TGCTCTGGGAATATCTCACAAAATTAATTATAAATGGCATGCGACTTTCTGATTTAGCCTGACAGGATTGTCCTTT
WI-9814	104 C A ---				TGCTTTTTAAAAATAACAATGACCACCACCTGACACCATAGTCTGTCTCCATTTGCCACGTCTTCCCTAGTAGAATAAGACAGGGACTTTGCTGGTGTCTATCT[C/A]TTCTCCTTCAGAAGAGCACTTGGCCCCCTCATAGGCATTCCATAGATATTGTTGAATGAATGTGCTTTTGCATATTGATTCTCTACATTTGATACA TTCTCAGGAGGGACATTTGGCCTAT
WI-9720b	55 A G ---				CCTCTAACAAAGAAAACTTGACTTCCTCAACTCAAAAATACCTTCTCTAATAATTT[A/G]AGTAACCAAAATATTCCTTCAAAATAAATTAATCTTTTAATTAGAAGAAGCAACAGTGTAGAGGTAGTACATTCAACCC

WI-9720a	47	A G ---			CCTCTAACAAGAAAGTTGACTTCTCCTCAACTCAAAATACCCCTTCTTGA/GJATAATTTAAGTAACCA AAATATTCCTTCAAATAAATTAATCTTTAATAGAAGCAACAGTGTAGAGGTAGTACATTCA CCACC
WI-9825	123	A T ---			CAGCTCTAAGGCAGGATGTGGCTTATGAGATACTTTGCAATGTCTGTCTGCACACCTTGAATCTGCC TGCTGGCTCCCTTACITTAACCTCTCTGTCATGTGCAGATGAAGGCTCAGGGTCTTGA/GJAGGATTAG TAAGATCTCTTTCTAAAGACAGGAGATTATTACAAGAAGAACTACCAGGGTTTAGTTTGCATT TAAGAAATGCCAGTCTTTTGTCTGTCATCATCTTGAACATTAATCCACATG
WI-9748	74	C G ---			CCACTTCAGTAAATCAATTTGTAGCACTTATTTCTAAAGATTTCTAAATTTTATATGTTTACCCCTTT GTCATT[C/G]TCAGACCAAGTACATGTTTTCACACAGCCATCTTCTTTCTGGAATCTTTTCAGAAT TACAGTTATGATGTCCTTTTATATCCCCA
WI-9943	91	T C ---			TGAGGCTATGATGCAGATTTGTAGTACTAATCTTATTAAAGCAATTTCAATGTTGTGGCACTGTT CGTTGTGTTTATATCCATCTT[C/J]ATTTTAAATTTCTACTGAGCAGAAAAAATGTATACATT AACCTTTGCTCCCTATTGTACCTTTTAAATATGCAATTCACACCTTCTCTTTTGTCTATTAGGA
WI-9891	39	T C ---			AGGGGCTTCACAGATCCGTCAGCTCAACACTGCCTCTT[C/J]AGTGAGCCTGTGAACCCCAAGAC GGCTGGTCATCAGTGTATCTCTCTCTTCCGGAACAATCTTTAAAGAAAAAAGAGTGT CTTTGAATGTATCCATTTTATCCCAATAATCTTGTGTTTAAATCTCTTATAGGCCAAATCCCAAT GTGCTGAAATATCTGCCAAGCATGTCATTCTACAAAAAGGATTGCAAA
WI-9897b	84	C T ---			CTCAGAAATATTCAGATCTTCCCAAAATGTCATGATCTTGTCTCAACATCTTATTTTCTCAAAAC ATTTATCTAGCCTGT[C/J]AAGTCATCCAGTGAGGCTGTTTATTCATCTATGTGAAATTTTGAGCA ACCCACAGGATTAGAATTAGCATCTTATTTTGTACCCACATTA
WI-9897a	83	A T ---			CTCAGAAATATTCAGATCTTCCCAAAATGTCATGATCTTGTCTCAACATCTTATTTTCTCAAAAC ATTTATCTAGCCTGT[C/J]AAGTCATCCAGTGAGGCTGTTTATTCATCTATGTGAAATTTTGAGCA ACCCACAGGATTAGAATTAGCATCTTATTTTGTACCCACATTA
WI-9935b	115	C A ---			AGATAACCCCTGGAAAACTAGAAGAAATTAATAACGTGTGTCACACCTCACCAGAACTGGAAGGAGT CTGACTGTGTTCTTATGGGGTCTTGGACTGGCAGGGGGAGTTCAGACA[C/J]AGCCAAGAAAAAGCC TGATATTAGAGGCACCTGCATTAA
WI-9935a	42	C T ---			AGATAACCCCTGGAAAACTAGAAGAAATTAATAACGTGTGTCACACCTCACCAGAACTGGAAGG AGTCTGACTGTGTTCTTATGGGGTCTTGGACTGGCAGGGGGAGTTCAGACACAGCCAAAGAAAGCC TGATATTAGAGGCACCTGCATTAA
WI-9983	146	C T ---			CCGTGTTAGGTGCCAGAGTCCATGCTCTTGGCCACAATGTTAGGCTGCCTCCCATTTCTTTGCTTGA TTCCCCAAACCCCAAGGTTCTACCCAATCTGATCAAAATGCTGACTAGTGGTGGTCTGAGGGTAA AGCATTTATGA[C/J]TAGACACAAAGACAAAGAGGTTAAAGTTGCTGTCTCAAGAGAGAGACATAA AAACAAATGGATCTGGAACTAAGTAAGGCTTCGAGGAGGAGGTGAGCAAAAGG



WI-10019	139	A T A T C T	T G A T G T A A T G C T A T G T A G C A A	T T G A T T A C T G T G C T T A G G G G A	A T A T C A G T G G G T T G A G T A T A C A G C A A T C T A T T T G T T A T T A T G T G T G C T A T A A A T C A A T G G T T C T A A C A T T C A A A T A A G A T C T T T T G C T T C T G C T C A G A T G C T T T C A A T G A T G A T G C T A T G T A G C A A A T C T A T A T T C C C C T A A G C A C A G T A A T C A A G G C C T T C T A C C C C A
WI-10020b	122	T A T T T	G C G A G A A A A G A A A T C A T G A C	G A C T G T T A A T T T A T T T A A T C A T T A G T C T G G	T T T A C T T C A T T G C A T C T T G A C T C G T A T T A A A T A A A T T A T G T T A A C T G G C T C T G A A A A G A A T T T A G G C A T G C A T A G A A A T A G C A G T G T T T T A T T G G C G A G A A A A G A A A T C A T A G C T T T T T A J A A A A A T A C C A G A C T A A T G A T T A A A T A A A T T A A C A G T C T A G G G T T C C G G A A G T G G C C T A A A G C A C G T A G T A G C C C T C C T T A G A
WI-10020a	39	T C A T A A A T T	T G T C A T C T T G A C T C G T A T T A A	A A A T T C T T T T C A G A G C C A G T T A A C	T T T A C T T C A T T G T C A T C T T G A C T C G T A T T A A A T A A A T T A T T C J G T T A A C T G G C T C T G A A A A G A A T T T A G G C A T G C A T A G A G A A T A G C A G T G T T T T A T T G G C G A G A A A A G A A A T C A T A G C T T T T T A A A A A T A C C A G A C T A A T G A T T A A A T A A A T T A A C A G T C T A G G G T T C C G G A A G T G G C C T A A A G C A C G T A G T A G C C C T C C T T A G A
WI-10064b	170	C T T T A C A T G	C C T T T A G A T A T A T T G T G A T T G T	A C C T T T C T G A A G C C A G A T T T C	T C T G A G T C T T T C T G A G A C A C T T G C C A T G G T C A A G G G T A G C A G G A T C A G G A A G G C A T T A T A A A A T A T A A T T T G C A G A G C A T C T C T C C T A T G C A C C A G A T A T T G T G G T G A C A C T C T G T T T A A T C C A G T A T C C C T A C T C C T T T A G A T A T A T T G I G A T T G T T T A C A T G C T T G A A A T C T G G C T T C A G A A A G G T T A G G T G T T T
WI-10064a	54	C A C A G G G A A G G	G T A G C A G G A T C A G G G A A G G	C A A A T T A T A T T T A T T A T	T C T G A G T C T T T C T G A G A C A C T T G C C A T G G T C A A G G G T A G C A G G A T C A G G A A G G C A J A J A T T A T A A T A A A T A T A A T T G C A G A G C A T C T C T C C T A T G C A C C A G A T A T T G T G G T G A C A C T C T G T T A A T C C A G T A T C C T A C T C C T T T A G A T A T A T T G T G A T T G T T T A C A T G C G A A A T C T G G C T T C A G A A A G G T T A G G T G T T T
WI-10289	29	T C C A A A C T C T T	T C T C C T G T C C C C A A A C T C T T	A T T C T T G T T G T A T T G A A T G G A A T T A A	C C A G G G A T T C C T G T C C C A A A C T C T T A T T C J T T A A T T C C A T T C A A T A C A A G A A T T T A T A G A A T A T G C A C C A C A T G C C A C A A A G A C A C C C T T A T A T T A G T
WI-1319	40	A T A T C T T T	T G G C A C T T A G A A C A T A G T T T	G C C A C A C A C C C C T A T G G T	A A G A A A A T C C T T G T G G C A C T T A G A A C A T A G T T A T T C T T T T A T J A C C A T A G G G T G T G G C T T A T C T T T T A C C T G G C A T G G C T T A G G T C C T G T T A T A A T T G G T A C T T T T G C C A C A A A G A G T C T G T T C T G A C A G T C T T A T G A T C T C T A T T T T A A C A T T A A C A C T G G T C A G A T G T T T A A A A C T T G T T G A A C C T G C A G C
WI-10316	104	T C C T C T T	C T G T T G A T T T C T A C C T C T A T T	G C T T T G G A A T G T A T C C A A A A G T T T	A G C A A C G T G T A C A C T T A G T A G G G T A A A T C A G A A G C A T C T A T A T T A T T C A C C A G T C A C C A C C C T G G A C T A T A G T C T G T G A T T T T C A C C T C T A T T C T C T T A T T C J T A A A C T T T T G G A T A C A T T C C A A A G C A T C A T G G T C A C T T C C A G T T A T G A A G G A T G T T T A A A A G C C C A G C C
WI-2572	61	C T ...		...	A G T G A G T T G T G C A C A A T T T G G A G A C A T T C T G T G A C C C C A A C T T A A A A C A C T T C T C C C A C A C J C T A C A A A G T T A A C A C T T C A G T T A C C A G G T A T G A T T G A G C A G A

WI-10368	31	C T	AGGCTTGTT	TGAAGCAACC	CAAGATATTAT	GAGGAAGCTGCCTGAAGCAACCAGGCTTGTTCCTACCCCTCTAGAGAATAAATAATATCTT GAGATAGGAGGAGCAGCCTGAGGACAGTCTGGGTTTGTCTACCCCACTGGAAGCAGAAATATCC TTCAAAGCTTTTCCAGTGAGTCATGTTGCTGCTAAACTATATGACCCCTGATGGATTGCCCTTTCAGGG
WI-10391	32	A	ATGACTCCCA	CTGTCTCAGGT	GGGAGTTAGGA	CCTCCCGTTCTCTGTCTCAGGTATGACTCCCA/A/GTCAACTCTTGAAGCTTCACTCCCATCTCGGTG TCTGCTTCCAGGGGACGATCTGACACAGCCTTTTGTCTGCTTGACAAACAGAACTTGCAGAAG TGATGCTGCGTGACCTCCAGGATA
WI-10567c	146	A C	GCAA	GTCTTCTAATA	TGCCGCTTCCA	AGCGATGAAATTTATATGTTATGCCTGACTTAGCGGGTGCTCAATAAATATTATCTTTTTCATATT TTCCAAATTAATACTAGAAATTTTACCACACAGAAATTTTAAACATTTTAAGTTACCCAGAGTCTT CTAATAGCAA/A/CJAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
WI-10567b	82	A C	---	---	---	AGCGATGAAATTTATATGTTATGCCTGACTTAGCGGGTGCTCAATAAATATTATCTTTTTCATATT TTCCAAATTAATACTAGAAATTTTACCACACAGAAATTTTAAACATTTTAAGTTACCCAGAG TCTTCTAATAGCAAAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
WI-10567a	60	T C	CTTT	AAATATTATT	GGTGAAATTC	AGCGATGAAATTTATATGTTATGCCTGACTTAGCGGGTGCTCAATAAATATTATCTTTTTCATATT ATTTCCAAATTAATACTAGAAATTTTACCACACAGAAATTTTAAACATTTTAAGTTACCCAGAGT CTTCTAATAGCAAAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
WI-11153b	84	C G	TACTTTA	CAAACTTCAA	AAATCCAACA	CGTTGGGAATTTTCTATCTCACCTAAATATG/C/AJGTGATTAAATATACATTTTAAACAACTTC TTGCTTAAAGTACTTTA/C/GJGAAGACCTTGACTGTGGATTTTGGATTTTCTTTTCTTTTCTTAATA AAACATGCATATTTAAGTTGTCAGCAAGATGTACTATATGTTAATTATCTGATATCAGCATCCCTT TATGTATT
WI-11153a	33	C A	AATTATG	GGGAATATTTC	GCAATTTGAAG	CGTTGGGAATTTTCTATCTCACCTAAATATG/C/AJGTGATTAAATATACATTTTAAACAACTTC AAATGCTTTAAGTACTTTA/C/GJGAAGACCTTGACTGTGGATTTTGGATTTTCTTTTCTTTTCTTAATA AAACATGCATATTTAAGTTGTCAGCAAGATGTACTATATGTTAATTATCTGATATCAGCATCCCTT TATGTATT
WI-2616	125	T C	ATCC	ACAGAATTG	CCATGGCTGTA	GTTGTGAAACTCCAGTATCATTTCCCTCAAACCACGCTTAAATCACAATCACATTTTCTTCTGTA GAGCTCAAACCTCAGTCTGAATGAAATGCTGCACAAATGTAACAAGAAATGATCCTAT/CJACTGGG ACTACAGCCATGGAGAAAAGCAATGTAGTCAGCAAAATGTTAACAG
WI-11163	58	C T	TGAGA	CAAGTGAATT	TGCTCTTTCA	TGACTCAAAGGAAACACACACAAAAAGTTTACCAGTGAATTATGACCAAAATGAGA/C/JAAAT TTGTTAAAAAAAACCTCAAATGAAAGAGACAAATATAGTTCAAAGATTACAGGTTCAATATTTGT ACCTACAAAATAGGGATAGTCATGGTGTGGCAGACTTTTCTTTTCTTTTCTTTTGT/GJCTCTTA GAATCCATTTTGTCTTTTGGCCAGCATTTCCCTCTCCCCATATTTTAAAGGAGAGAAATTCACCTTTTCT CTGTTGGATGATCAGAGTTCTGCTCTTCCCAATCCAGAGGCGAGGTACTATTACCCCATGGGGTCAT AGAGAGGATTAAACAGGGTGATGCCCTGCAATGGGAATATTGAAAAACC
WI-10656	59	T G	---	---	---	---

WI-11169b	154	T G T T T T	TTAACCAAGA GTTTTCATTC	CTAACTTAAAA ATCCTCATTCA AAATATAA	CAGCATAGAGGCTGTAGTGACCTTGAGTTAGATTTCTCTATCGAGAAAGCAATAAGTGAAAGTAA CTGACTTGAAAAAATAAAGCTTAAAGCTTAAAGTAGTGTCTTTTAAACCAAGAGTTTTCATCTTTT TTTAAAAAAGAGCAGACATG/GTJTATCATGTGTTCTGATAATTTTTTATATTTGAATGAGGATT TTTAAGTTAGCAT
WI-11169a	95	A G T T G A A A A	AATAAGTGAA AGTAACTGAC	AAACTCTTGGT TAAAAAGCAC TACTT	CAGCATAGAGGCTGTAGTGACCTTGAGTTAGATTTCTCTATCGAGAAAGCAATAAGTGAAAGTAA CTGACTTGAAAAAATAAAGCTTAAAGCTTAAAGTAGTGTCTTTTAAACCAAGAGTTTTCATCTT TTTTTTAAAAAAGAGCAGACATTTATCATGTGTTCTGATAATTTTTTATATTTGAATGAGGAT TTTTAAGTTAGCAT
WI-10685	25	A G ---		---	CAAGTGCTTGGACCTTGGATAGGTC/GJACCGGCTGAAGTTGGACAGTTGGTTAGTTGGAG ACCAAAATTCAGTCATCCTGTATATAGATCTTGTCTCTTTGGGTTTACCACTAGGGGTCACTAAAG AGAGTGGGAGACAGTCTCAATCTTGCTAAATAATCCAAAATAGCCATGGGTTTGGACAAAATAC AAGGTTAGTGCTCTCTAACTTTAATGGGCATA
WI-10686	133	C T A A G G	TGCCCTGTCC AAGG	CAATCTCTAAA TTCATGTGTAG ACACA	AATAACCTGTGGCACATAAGGCAATACTGAGCCCCATACAGAGTGTTTATGTATATATGAAA AAAGTCAAGAGAACAGATGATATAGTTCTGTAGAACTTGAATCTGATGCCCTGTCCAAAGG C/TJTGCTACACATGAATTTAGAGATTGAATGAAATGGCAAAATTCAGAAAAGGG
WI-11175	77	T A A	AAATGATTCCT TCTGCTCAAAG	CTGTTCTCACA TCTTTTTTGAA AA	GGTAGGATGATCTAGAAATGCCACTTTACAGCCACTGAAATATATTCCTCCCAATGATCTTCTG CTCAAAAGAGT/AJTJTATTTTAAAGTTATCTACTTATTAATTTCTGCTTTTTCAAAAGAAATGTGAGA ACAGTACAAAATGTGTTTCAGTATAGCAAAATTAATAATTAAGTAAAGTAAAGAAAAGAGCCAAAT TGGGC
WI-10694	144	A G T A T G A G T T T C	TGCAAAATGCTT TATGAGTTTTC	GGCATTTTGTGTA AAGGAGGAAA	TAGAGAGGCTCTTTCAGTTTCAGGGTTGGAGGGTGGTGAGGTGAGATTCACTTCTTAGAAGCACTGGC TATGTACAGAAAGATAAACTCTGAGAAAGAACTCAGTTCTAAAGTGTTCAGTCTTTGCAAAATGCTTTA TGAGTTTTC/GJTJTTCTCTCTTACAAAATGCCATCAATTCCTCAAGGAAAAAAAAGCTTTCT T
WI-2716	23	T C C	TGAATTCATCC AGAAAAACAG	TCTCTTTTCTC TCTTGTGTCA TTC	GTGAATTCATCCAGAAAAACAGCT/CJGAATGACAACAAGAGAGAAAAAGAGAATAAAGGTTTTTGT ATACGACAAGTGGCTCAAGCAATTTCTCTGTCCCAGTGCATGGAGCAGTG
WI-10719	115	T C G C C A T T C T A G	TGACTCTCAAG GCCATTCTAG	GCACTGCCAGC AGCC	CAGGCCCAACTCTGTCTAATTAAGTGTTTAGAACAGACACCTCAGTCACACAAAAGTTTCTCTGTATGT GCCCAACCATAAACAGTTACTGGAGGATGACTCTCAAGGCCATCTAGT/CJGGCTGCTGGCAGTGCTT TTCAGCCTGCTGCCCATAACTAA
WI-10721	40	A G C T T G C C A	TGGCTCTGCTA CTTGCCA	GAAACTCCAC ATAAATAAAT CTCA	CAACCAATTCAGATTTAATTTTGGCTCTGCTACTGCCA/GJATGAGATTTATTTATGTGGAGTT TCTGAAGATCCCATGGTAAATAGTATTCCTCTCCCTGCTAGTTTGAAGAAGTTGAA

WI-11204b	88 T C ---			GGACACGAAATTGATTAATATTGGCTGACCTTTGAGGAGGAGAACAGGGAGTTGAGGTAAAAAGGGTG AAAAAGAAAACTTTACCTTTT/CJATTTTAAAGTAACATAAAGGTATTATGTACATTTTAAAGTGAT CAAAAAATTTTAAATTGGGAAGAGATTTAGTGAATCAGAAAAAAGTCTGAGGAAATTTATTCAGAAG GCAACATC
WI-11204a	80 T A AACTT	GTAAAAAGGG TGAAAAAGAAA	TGATCACCTTA AATGTACATAA TACCTTT	GGACACGAAATTGATTAATATTGGCTGACCTTTGAGGAGGAGAACAGGGAGTTGAGGTAAAAAGGGTG AAAAAGAAAACTTT/AJCACCTTTTATTTAAAGTAACATAAAGGTATTATGTACATTTTAAAGTGAT CAAAAAATTTTAAATTGGGAAGAGATTTAGTGAATCAGAAAAAAGTCTGAGGAAATTTATTCAGAAG GCAACATC
WI-10732	80 C A ATTGGTTCAC	GCTGTGCTTC CATAACAGAA	AAGAACAATG CATAACAGAA CTTTAA	ACATGTAATTCCTTTAGTGGTCAGCCTTCCTTACCCCCAAGAATATCCCTGGTTTATGCTGTGCTTC ATTGGTTCACCTC/AJTAAAGTCTGTATGCATTGTTCTTGAGTCCACATAGGTGTTAATCATTCCTCA CACCACCTCTGTTTAAACTGTC
WI-11206	127 A T ACTC	GGTTGTGTTTT CTGTATGTACA	GAGTGACAATC CTAATGGTTGG	TAGCTTTTCTTTGTACGAGTGTCTATAAAGAAATTACCACCTGTGCACATTTGTAAAAAGATAGCACAG AGAGAAGCATTACAGGGCACAGCACAAACATGAGGTTGTGTTTCTGTATGTACAACCTC/AJTCCAA CCATTAGGATTGCACCTCATATATAGACAGAAATTCAGTGGTGGTGAATTTGAATTCACACATGGA ATAAGTCTA
WI-11215	68 C T ---			GAAAAAAGTTTTAATTGGATTGCTTAGTTTGTCTTAAATTTGACCTACTTTTCAGATTTATTTTAGT [C/T]ATTTTCTATAATATTTCTTGTAGTGATGGATTTCTATAAATTAAGGAAACAGATATTT ACACAGAGAAGACAGGATTGCTTGAATTAGTATAACATCTTTATCCAAAGCCCCCATTCACCATGT TTT
WI-11219b	89 G A AGAGAAA	GAGAGAATAT TCCAAAAAGT	GGTCTCTAAT TTTCTACACT TTCT	ATGAAAAATGCATTAGAAGAAATTGGAGGATAAAATTGAGAGAATATCCAAAAAGTAGAGAAAA GAGACAAAGAGATGAAAAATAGGA[G/A]JAGAAAGTGTAGAAAAATTAGAGGACCATCTATACAG TCCAATATTTGAATAATAGTTATTCAAAAAAGAGGCAAGAAAAATGAAGGGGAGAAAAATCCAC AAACATCTC
WI-11219a	18 G A ---			ATGAAAAATGCATTAGAA[G/A]AATTGGAGGATAAAATTGAGAGAATATCCAAAAAGTAGAGAA AAAGAGACAAAGAGATGAAAAATAGGAGAGAGAAAGTGTAGAAAAATTAGAGGACCATCTATACAG TCCAATATTTGAATAATAGTTATTCAAAAAAGAGGCAAGAAAAATGAAGGGGAGAAAAATCCAC AAACATCTC
WI-11222b	136 G A GCCTGG	CATACCACTGC AGTGTGA	CCTGGTAGCCA AGTGTGA	AGCCACAGTGGGAATCAITTTACACTACCGAAATCAGCAAAATGCTAAAATGGGCTTTGGATTTTGT TTTTGTTTTTCCATAGACCCACCGTTGAACATTTGTTAAACATTTACCAGCATACCACTGCGGCTG G[G/A]TCACAACCTTGGCTACCGAGAGAACCTGACACAGACTTCGTAATTCCTTCACAGGCTACTGG AAAGCC

WI-1122a	25 C T A	GCCACAGTGG AATCAATTTAC	TTTTAGCATTT GCTGATTTGG	AGCCACAGTGGAAATCATTACACTA[C]/TCGAAATCAGCAAAATGCTAAATTTGGGGCTTTGGATTTT TGTTTTTGTGTTTTCCATAGACCCACCGTTGAACATATTGTTAAACATTTACCAGCATACCAGCTGCGG CTGGGTACAACTTGGCTACCGAGGAGAACCTGACACAGACTTCGTAAATTCGTTTCACAGGCTACTGGA AAGCC
WI-10775	39 C T CACTC	TTTATGCCATA TTAATTCATTA	CTAGATGTAAT TGCTAAGAAA ATATGATG	TTGCAAGTTTGTGTTTTATGCCATAATTAATTCATTACACTC[C]/TACATCATATTTTCTTAGCAAAATACA TCTAGACACCTGGCACTCAGTAAGGATATTCCTGGCAGCATAAATCATTTGTTATCATTAGACATTGCA GGAACCAACCATATGGATGGATAAATGTGTGTTTAAATGAAGGCAAGCAATTA TTGCATGCATTTATACGAAAGGAATAAAAATATCTTCCCTTATAGTTGAATTTTAAGTAAAAAATAAA GTTATACATATAATACAAAAAGTTGTAAAGTATAGTAACAAATGAATTAGAAAAATGTCAGTGGTTGC TAGTACAGGAATCAAAATTTGGACTATGAACA[A/C]GACATAGTTGCTAAGGATATCCACAAATTTAT TTCATGA
WI-11226	165 A C ---	GCAAGGGAGG AACATTTACA	---	CAGTGGCTGGCTACTGACAAAACGTAAACATCGTGGCAGGTGGCAAGGAGGAACATTTACAG[A/G]G TCCATCTCTGATGTACCAGCAGGGCCAGGAAGGTTGATCTGGAG TGGGACACACTGCTCTAGAC[C]/TTCAGGGTCCCTCAAGGTGGGTGTAGAGGCCCTACTGCCCT GCCCTGGGGACGAGAGGCATCAGGGCCTTAGTCTCTCTGGGACAGTGAAGGGCCACGACC ACAGAAAAATGCTAGGTCTTGTAAGAGAGAGGAAGCATCTTCATGGCAGGAATTC/T]CATTT CTGTGTTCTTAGGGTTTGCTGGCTGGCCATCAGTTCAACTCAGCCCTGTCCCTGATCCAGCAACATT TCCGTAACCTACCTCTAGAAGTCATGCAAGAGAAATGATGA GGACCAACAGAAATTAATTTGGCA[T/C]AGGGTTTCTTAAACTATTTCTGCAGAACATTAAGTAAAGT TTAAATAAGGATCAGGCTACCAGGAATACAGTTAGGGAACATGTGGATGAATATTTCTTTAGTAGAG GACTTCTAAAGGCTATAATTTGGATACATTAGGCTCATTATGAATCTCAAAAGGAGCATGTAGT AGGCATATCTAA
WI-10778	62 A G G	GGAAGGGAGG AACATTTACA	CTGGTGACATC AGAGATGGAC	TATGCCCTCCCAACGAGCATCCACGCTGCTTTAGCACAAAAAATAGAATACATCATCTGAATG GGCACATTAATCTGCAGGCTCTCC[C]/G]TTTCTAAGTCACTGAGTTAGGTCTGCAGACACTGTGTA TACCATAAATCTGATTTCTGAGCAGGAGGAGGCAGATGAGAGAAGGGCTGCTCCGTGAAATAC TAGTTCGG
WI-10789	21 C T GCTCTAGACC	GGGACACACT GCTCTAGACC	TTGAGGGACCC TGGGA	GATTTGAGTATTATCAAAATTTGCCAAAGACCAATTAACAAGATTTAATAGTTAAAGCCAAAACTATA AAGAAATTAAGTGTCAAAAGTGTGTTAAT[C]/TCTTAATACCAATTTTATAGGGCCACCATTAACTT CTGAAGAAAGGTCAGCATATGCAACTAAATTTCTAAAGTCCAGT GGATGATGTTCTGGTCCCTTTAT[C]AAAGCCCTCTTGACATCCCAAAATGTGTAAATTTATTTATCT TGGTATTTCTCGCTTACCCATAGTCACTGTCAGGTGTCACCCCT
WI-10810	58 C T GCAGGAATT	CATCTTCATGG GCAGGAATT	CAAAACCTAAG AAACACAGAA ATG	GGATGATGTTCTGGTCCCTTTAT[C]AAAGCCCTCTTGACATCCCAAAATGTGTAAATTTATTTATCT TGGTATTTCTCGCTTACCCATAGTCACTGTCAGGTGTCACCCCT
WI-10828	23 T C ---	---	---	GGATGATGTTCTGGTCCCTTTAT[C]AAAGCCCTCTTGACATCCCAAAATGTGTAAATTTATTTATCT TGGTATTTCTCGCTTACCCATAGTCACTGTCAGGTGTCACCCCT
WI-10832	91 G C AGGCTCTCC	CATTAATCTGC AGGCTCTCC	CCTAACTGCAG GTGACTTAGAA A	GGATGATGTTCTGGTCCCTTTAT[C]AAAGCCCTCTTGACATCCCAAAATGTGTAAATTTATTTATCT TGGTATTTCTCGCTTACCCATAGTCACTGTCAGGTGTCACCCCT
WI-10834	96 C T GTGTTAAT	AGAATTAAGT GTTCAAAAGT	TGGCCCTATAA AATTGGTATTA AG	GGATGATGTTCTGGTCCCTTTAT[C]AAAGCCCTCTTGACATCCCAAAATGTGTAAATTTATTTATCT TGGTATTTCTCGCTTACCCATAGTCACTGTCAGGTGTCACCCCT
WI-2287	24 T C ---	---	---	GGATGATGTTCTGGTCCCTTTAT[C]AAAGCCCTCTTGACATCCCAAAATGTGTAAATTTATTTATCT TGGTATTTCTCGCTTACCCATAGTCACTGTCAGGTGTCACCCCT

WI-2296	81 A G	TGTTACTTTGA TTCTTTGCTCT	GCAATCACAC AGCTAACTGG	TGGAGGGTTAGAAATGCAGGTGGCATCCTAGAAAGGCTCAGGCTTTAGATAAGTTGTTACTTTGA TTCTTTGCTCTGAC/GGCCAGTTAGCTGIGGATTTGCAGAAAGTTACATTTGTTTGTG
WI-2300	77 G T	GGCACAAG CCAGTCATAC	GGTGGGTCAA TTTTAAAGCA	TTTCATCATGCTGCTCTCCCTGGAAATTTCTTTATTTAGCGGGGCGAGGTGTAGGCACAGAAGC CAGTCATAC/GTJGCTTTAAATTTGACCCAAACCATTACTAAGAATAGCATTC
WI-2371	55 G T	GTCTTGTTCTT CCAGCTTCT	CAAAGATTGAC AGCACCCAC	CAATGATCCCCCAACATTTCCAGGGAAGGTGCTGGTCTTCTCCAGCTTCJG/TGTGGTGGCT GTCAATCTTTGACATTCCTTGTCTTGAGCTGTATAATTCCAATCCCTTGCTCCAGCTTTACATGATGT TCTCTCCGTGTCTGTG
WI-2395	122 A C	GAACATAATT GTAGAAAAAT	TCACCTTTCTA TTTATCTGAA TTCA	GGGGGCACAATTTAGCTACAGTGCATATTTAAAAAGATAACATAGAAATATCATATAAATGTTTAC TGAAATCTGAAAACTTAGGATGAGTGAACATAATTTGTAGAAAAATTAATCCAAJ/CJCTGAATTC AGAATAAATAGAAAGGTGAATCATCTTATATCATTTAAAGAGCTAAATTAATAGTAAACAATCTTTA CATTTACACAAAACCCA
WI-2437c	192 G A ---		---	CACCAGCCACCACCCCTACAACCTCCTGTGGGAGTCTGGCTTTGATTATTTGGGACAAAAATAATTT CAGCTTGAAGAGAGATTCCAATCACAACTTTCTAAATAATAGACACCAAAAAATTCCTCAATGCTCTAA ATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACGAACATCACAGTG[G/A]GCTGTG GTGCCAAGGACGCATTATG
WI-2437b	179 G A ---		---	CACCAGCCACCACCCCTACAACCTCCTGTGGGAGTCTGGCTTTGATTATTTGGGACAAAAATAATTT CAGCTTGAAGAGAGATTCCAATCACAACTTTCTAAATAATAGACACCAAAAAATTCCTCAATGCTCTAA ATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGAC[G/A]AACATCACAGTGGGCTGTG GTGCCAAGGACGCATTATG
WI-2437a	128 G A ---		---	CACCAGCCACCACCCCTACAACCTCCTGTGGGAGTCTGGCTTTGATTATTTGGGACAAAAATAATTT CAGCTTGAAGAGAGATTCCAATCACAACTTTCTAAATAATAGACACCAAAAAATTCCTCAAT[G/A]CTC TAAATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACGAACATCACAGTGGGCTGTG GTGCCAAGGACGCATTATG
WI-2440	71 G A	GCAACCTACT GACAAATTTAA TTTTAGTT	AACAACCTCTGC TATTGGTCTCA C	CAGTAGGAAACGGGTCTCTCCTTAGACCCCTCCAGAAAAATTAATGCAACCTACTGACAAATTTAATTTTA GTTG[G/A]GTGAGACCAATAGCAGAGTTGTTACCTGCAGAACT
WI-1356	123 T C	TGTTTAGGAA ATAATGACAA	TGGTTACAAC GTACCAAAACAT G	CTGTAACCTACACACATCCTCCTGTAACTCTAGGTTACTTGTAATACAAAACACATGTAATGCT ACATAAATAATTGTCATACATAATTGTTAGGAAATAATGACAAAGAAAAAGCC[T/C]GTACAT GTTTGGTACAGTTGTAACCCAGCCATTTTCCCCCAATAATTTCAATCCACAGTTGTTAATCCACAG AAACCACGAATG
WI-2886	46 C A	CAGAGTCTGG GGGAGAAGA	TTGCCATGCTT TATCTCGTT	ACAGTTAAGAAAAAGGCTGCAGCCGTTGCAGAGTCTGGGGGAGAAGA[C/A]AACGAGATAAAGCATG GCAAGACCAACGCTGAAAGTATCCAGGGTGTCTGTATGTGCACATAGGAAGATCACTTACCTCAGCA TAGGAGGAGGCTAGGCAAGGAGGTGTGACAGAAACAGAGGCGCTT

WI-2906b	77 T A ---			CCTGAACACCTGGAGCACTCCCTCCCTGGACACCTTCATCTTGGCTGGAACCTTGGCTGGAATGCTC TTCCCTCT[A]GAGCTTTGGCTTACTTTTCTTTTCCCTTAGGTTTCAAGTACCT CCTTAGAGTTGGTTTCTGACCAACAAA
WI-2906a	50 A C TCTTGCTGG	GACACCTTCAT	AGAGCAATCCA GGCAAAGT	CCTGAACACCTGGAGCACTCCCTCCCTGGACACCTTCATCTTGGCTGG[A]CJACTTTGCCTGGAAT GCTCTTTCCCTCTGAGCTTTGCTTGGCTTACTTTTCTTTTCCCTTAGGTTTCAAGTACCTTCAAGTACCT CCTTAGAGTTGGTTTCTGACCAACAAA TACTCCTCATTCCTCATGTCCCTAGACGTAAGTTCATGCTCCCTGAAACATTTATTTCTTAAAT TAGATTTCCACCCCGACACTATTTACACAGAAACAGCATGGAGCAGTTTGGAGCTGGCTCTTAGA GAACCTTACTTAAGGACAGTGGTTTCCATCTGCTTCC[A]CJTAGAGATCTAGGGTGTCTTTTGGAAACC ACCTTGG
WI-1736	175 C T ---		---	AATACCCACGTCCTAACCCATCACACTGATCATCAATCAGGTTTTTAACATATTATCTGGGAGG ACACAAACATTTAGACCATAGCAATTGAATTAAGTATAGATGTGTTAAGTAAATTAATTAACATGGTA CA[G/A]JACAACCTTCAGTTTAACTTGTAGTGATCCATGTGGATACCATGTACCTTCTTACATCATG TGA
WI-1851	136 G A GTGTTAAGTA	GCCTATAGG	CACTAGCAATG TTAACTGAAG TTG	CTGATGTTTGGGAAGCACTGTCTTACATCTCTAAATGTCAGCACCCCAACACAGAGACCCCG[A]JT GAGCTTAGTCAATCTATAGTGGCAGTACCTGAATCAGTGCTGGTGCATAGTAGACACT
WI-3000	62 G A AGAGACCCC	CCCAAAACAC	ATTGACTAAGA CTCA	ATGGATCTGCTCAATTATAGTCCCAGATAAACAGCCCTTCTCCCCCCCCCGGATTATTTACT TAAGGGTTTAGCAAAATTCACCTGACAAAGAGTAGGTTTCAACATTTGACCCCTCATAAAGTATTTT TTCTCTTCTGTTTGTCTTCTCCCTTCTTAAAGAGATAGT[G/A]JCCAGAGGCAATTCGACTTTCTGT AGCCACAAGATT
WI-1754	177 G A TAGTC	AAATTCACC	AAAGTCGAATT GCTCTGG	ACAACACAGCAAAATTCACACAGATCTATTAGATTCT[A]JACCCCATCTCAAAACTATCACATCAA AGAAGCAAGGAGACATATTACTGGTGAGGAAGCCAAATTCAA
WI-3167	37 T A TAGATTC	ACAGATCTAT	TGTGATAGTT TGAGATGGTG	CAAGCACACATTCAGGCAGTGGGAGGTAGGGAAGGTGGGCAACTTGGCAGCAGAGAGGGAAG AAGTTCAGACCCGTTGGTAGGATAAGTGATCCAAACCCCTTTGTAGGCGAGGTGGTGGAGTGGGAG ATAAAGA[G/A]JCCAAGCCCTAGTTTGTAGTGACACTGTGGGATTCAAG
WI-3208	140 G A AGATAAAGA	GTGGAGTGGG	TCACTCAAACT AGGGCTTG	ACTCCACCAACAGTTTGTGAGCCCAACCCCTGCATGGTCTTTCTCTG[C/J]TTTACATCATTTGCATA AATCTCAACTGACACATCAGTGTCTCTGCCACCCCA
WI-1775	47 C T TTTTCTCTG	CCTGCATGGTC	ATGACAATGAT GTAAA	CTGCCCCTTACATCCAAAGCCAGTTACTCGAGCATATTCATTGATTTCCCTTACAT[G/A]CAAATGCTC CTTTTAAAGTCCCTCAACTTTTAAAGCGGAAGTTGAGACATGCACAAATAGATTTCCTTAGGA
WI-3402	55 G A ACAT	AGCATATTCA	GAGGACTTAAA AAGGAGCATTT G	



WI-3416	33 C T GTC	CCAAGTTGTA GCATTGAGAA	ACGAGCACAA CTACCTCTAAG AG	TCTGGTTCTCCAAAGTTGTAGCATTAGAGAGTCTCTCTTAGAGGTAGTTGTGCTCGCTTAAAA TATGTTTTCAAGATAGTATCTCCCTGTTGTACCTCTCCAAACAAAGTGTACCAACAGCATTGTTAAG GAAATGTGCAATGCTTGCTACCTCTGACGCACACATAATTAATCCCATTCCTTAAAGACACAGG
WI-3453	70 C T ATCAGAGAA	TTCTTAGGCC TATCAGAGAA	TCAATTTTCCC CATGACTTC	TCCTATTCTACAACAACAGAAATTTAACAATTTGAATAATCAGCTACTCTTCTTAGGCCCATCAGAG AATCTTGAAGTCATGGGGGAAATTTGATGCCATGTGAATTTGGAGAAACAGACAGGCATATATGGAG AATTACAGTTTACCAGGGACACAATCCCACCTCCAGAGCCATCTGTAAAGAC
WI-3474b	109 G A ---	---	---	CATGCTAGGTAGATCTGATCATGAAGTTTGAACAACCTTAAATCATCAAGTGTGTCAACTGGTTTGA GTCAGTTTCCCTAATTTAGCACAGTATTTAATGAGGTGGTGAJTTGGAGAAAAATTTGATGGTTGCG TAGTTGAGTTTCTGTCCACC
WI-3474a	90 A G AC	AGTCAGTTTCC CTAATTTTAGC	CAACCATCAAT TTTCTCCCA	CATGCTAGGTAGATCTGATCATGAAGTTTGAACAACCTTAAATCATCAAGTGTGTCAACTGGTTTGA GTCAGTTTCCCTAATTTAGCACAGTATTTAATGAGGTGGTGGGAGAAAAATTTGATGGTTGCG TAGTTGAGTTTCTGTCCACC
WI-3502	79 C T GGATGTCT	CCTGGGTTTCT GGATGTCT	GGGTGACCCCTG TCTCA	TTTGACCCCATACATGAGATAAAACCATAAGAAATGGTGGAAAAATAAAACGGGAGAGACCTGGG TTTCTGGATGTCTCTCTTGGAGACAGGGTCAACCCAC
WI-3600b	146 G C CATCT	GGTTTCTAAC TGGATATAAA	CCAGTGCAGCC TTCCAT	TCACGGCAAGTTCTGCAGCAGTGTCTTGAAGTCTGCTGCTTCCAGAGTCTGATTATCCATGCCCTG ATAGTTCTGTGAGCCACCTAACTCGTTTCTGCTTAAAGTTATCCAGAGGTGGTTTCTAACCTGGATA TAAACATCTGTCATGGAAGGCTGCACCTGGATGAGGTACAAA
WI-3600a	78 T G ATAGTTCTG	CCATGCCCCCTG ATAGTTCTG	GGAAACGAGTT TAGGTGGCTC	TCACGGCAAGTTCTGCAGCAGTGTCTTGAAGTCTGCTGCTTCCAGAGTCTGATTATCCATGCCCTG ATAGTTCTGTGAGCCACCTAACTCGTTTCTGCTTAAAGTTATCCAGAGGTGGTTTCTAACCTGG ATATAAACATCTGATGGAAGGCTGCACCTGGATGAGGTACAAA
WI-3678	125 GT ---	---	---	TAAATCATGCTTATTTTCAACAAGTAATCCACTCACAATAGGCAATGATGTGATCTCTTTCTGTAA GAAAAGCTCTCATGCTCTTCTGAAACCTTCTACTTACTGTGTGTTATGATGCACCTGTCTCTTTTGG ATAGATGGTTGATAGGAGATGGTTGTTAAAGACACAATTTACCTTGTGTGTTTCAGGCAGAAATAG ACTCTCTGTGTAAATCACTGAATGAGTCCAAAAGCCTTTATGTCTTAC
WI-3687	67 A C ---	---	---	AAAGCGATGTTGAGATACCACATTCATGAAAAAGTAAAAACACACACAAAAATATGACATAAAA TTAGAAAAACTACTATAGTTTATGAAAAATGACTTCCAAAATTCAGAGAAAAAGTCACTTAAACAGG ATTCTCAATTCAATCCAGAAATCTCCTCTGTCTTAACTTAACTTGAAGTCACTGACACAG
WI-3735	72 T C AAAAC	CCTCAGTTATG TATCAAATGA	GGCTCACCAAT CAATGTTTTT	TCTAAATGTGAAACCAAGAAATCCTGACACGACCTAACTGCCAGTCTCAGTTATGTATCAATGA AAAACTCTACACCCGGTTCAATGAAAAACAATGATTGGTGAGCCATGTCCTTATTTAATGAAAAA GATCTTGGCAATTAATCT



WI-1819	51 C T ---			GAAGAAGCAGGAGCCAGGCAGGACAAACTTTTGAAAAAGCTTTTACGAC[C/T]TTCGTGGATCCG AATTTTAGTGTGATTGGCAGGCAATCGGGGTAAACATGTTCCAGTGTTTAACCTGCACAGAAATTGC CAGATTAGCGATTGTTGACTTTGCCAATAATGAATGTGAAAAAAGGGTGGTAACCTGTT AAGCCTGCTGCAATGTTTAGACACGAGGGTGGGGTGGGAGGTGGAATACC
WI-3746	116 G A ---			GGCCTATTACATGACACTGGGCCAAGATCTTGCTTCCCCTTCTTTCAATAGATAGACTAACTAGAAA ACTGCCCTGGCCCCAGGAAGATGTTGCTTCTCATCATCTCTGCTG[C/G/A]GCCCCAGGATAAAGCA GGCA
WI-3867	49 T C CAA	ACAGTCATTT AGTCTTCCTGA	TAAGATAACC ATACTAGGTAC	AGCAATGAGTTAACTCCTTACATGAACAGTCATTTAGTCTTCTGACAA[T/C]JCGGATGTACCTAGT ATGGTTATCTTATCTGACAGACAAGGACACTGTGACACAGAGATTGTTACTTGAACAAGACACACAGT CATTAAGTGGAGAAGCCAGCATTTCTAATCAGGCTCAGTGATCTGCCAAACCCCTTCTGCTATAG CATC
WI-3898	25 A C G	TGACCAATGTC TTTTAGAAGCA	TCGTGGGTGTC CTCTCC	CAATGACCAATGCTTTAGAAGCAG[A/C]GGAGAGGACACCCGACGACACACAGGAAGGAGTGAG GTGAAGATGAAGCAGTGTGACGCAGCCACAAGGTGAGGAAGAGCAAGGGTTGCTGGCCACT
WI-3901	114 A G ---		---	GGACCAATTGTCCCTCAGAAGTACATTCAAGCCCTGGACGGTGTCTCCTAACACTGTGACCTCAGGCA AGTCATGTCTGCTTCCCTGAACCTCGGCTTCCCTCACCTGACAAGTGG[A/G]TATCATGTGCTACACTGC AGTGTTTATAATGCTGCAT
WI-3914	99 C T GC	TGATTCTTCTC AAGACTCACA	TCTAGAAGCAA TGAAGGATGG	CTGAGGAGATTGATGCTACTTTTACCTGAGGAAACTTTTATTACCTCCCCTGAGTTTGTGCCTTGCAA GACATTGCTGATTCTTCTCAAGACTCACAGC[C/T]ACCATCCTTCAATTGCTTCTAGACCTATAACTAG ACTCAAGTCCCAGCAGGCCCTTAAAGGTAAGGTACAAAGTGTGACCCCATGGGAGGTATGTTACGCTA CAAAAGAG
WI-4019	33 G A A	CCAAGAGCGT CCTATGAATC	AACAGCAATA ACAGGAACAA ATG	CCACTCCCAGGCCAAGAGCGTCTCTATGAATCAT[G/A]CATTTGTTCCCTGTTATTGCTGTTCCACAGAT GGCAACTCTGCAAAGGGAGGGGTACAAAGTGAATTTTAGATGCTGCAGGAGACGAAGGGTC
WI-4091	84 A T	TTGAGGTCCTA GTCAATTGCATG	TGAGTTCCTAT TAAGTGACAAT ATTGTT	TAATTCACATTGCTCTTTTGTGCAATTTATTGCTTCTTTATGTAACACAATCACCAACATTGAGG TCTTAGTCATTGCATG[A/T]TGATAACAATAATTGTCACTTAATAGGAACCTCAAGCATAGTTATGTGT ACATTTATTGCTAACAGCAG
WI-4160	117 A G CAACAGAA	CCTATAATTTA GCAACAATAT	TGCAGGTAGAA TTTTCTAATAT AGCC	TCCTCTTCTGTAATAGGAAGTCTGATTAGATGCCCTTTTGGGTTAGTTGGCTTCTAAGATGGTAATT ATCTGTCCAAGTTTTTGTTCCTATAATTTAGCAACAATATCAACAGAA[A/G]GGCTATATTAGAAA ATTCTACCTGCATCCCCCTGGATCTGAACGTTCTTCATGATACT
WI-4168	32 A G AAACA	GGTGAGAGTC AAATTGATAC	ATTGCCAAACA GATTTTCAGA	CGTTGCTGGTGAGAGTCAAATTTGATACAAACA[A/G]TCTGAAAAATCTGTTGGCAATCTATTAAAGG CAAATATATACCAGCAGTGTGGTCTAGCAATTTCACTGCTGGGCAATTACCTAACATAAATGAT

WI-4177	68	T C	TGAATAAGCA CGTATTAAATT TACCTA	AAGGCAGCAA ATCATGATG	ATGCCTGGGATATACCTTCCAAATGACTAGTATGAATAAGCAGTATTAAATTTACCTATTATATTT AT/C/CJCATCATGATTGCTGCCCTCTTCCAAATTTACTACAAATTTGTTATGTCACATGAGGCACATG ATCCCATTAACCCAAATAG
WI-4199	51	A C	CTCCCCAAGTT AGTCAATATA AAAA	ATATGTTGATT AGGTATAACA ATATGTGTG	GCCATGAGCAGCAGAGGCTGAAACCACCTCCCCAAGTTAGTCAATATAAAAAAA[A/C]CACACATATTG TTATACCTAATCAACATATAAATGTTATAGATTAAACAGTCCACAGCAACAA
WI-5163	24	C T	CTGTCACTGGT CTGCCCTGT	AAAGGAACAC AGGAACAGAC C	TTCTGCTGTCACTGGTCTGCCCTGT[C/T]GGTCTGTCTCTTCCCTGTCTTCAATGTTCAACTGCTTGAT CTGTGCCCCACTAAGGTATCAGGTTATATGGGCACAGGATGAGGGCTTTGTAGACCAGAGTTTCTT GGAATTGCAACATTTGGGCAT
WI-4250b	117	A G	---	---	TAAGTGCATTAACTGTACAAGTCCACAAATACCTCTTCCACCAAGTGTAAAGCAGTTTTTAATAACA GGTTCAATATGAGTCTTGTGAAACAGGGTGGGAAGGATCCTGTAAAGG[A/G]TAAATATTGTTTT CCATAATATTGAAGATGTG
WI-4250a	94	G T	TCAATATGAG TCTTGTAAG AGG	CTTTACAGGA TCCTCCAC	TAAGTGCATTAACTGTACAAGTCCACAAATACCTCTTCCACCAAGTGTAAAGCAGTTTTTAATAACA GGTTCAATATGAGTCTTGTGAAACAGG[G/T]GTGGGAAGGATCCTGTAAAGGATAAATATTGTTTT CCATAATATTGAAGATGTG
WI-4255	68	G C	TGCTCCCCCAT CACCT	AGTTGTGAAG G	TAAATGCTCTGGGAGATAATAGAAAGTGCCCATCCCTCTGTATACCTTGGTTGCTCCCCCATCACCT [G/C]CCTTACACAACTTGAAGTAGGCCCCATCCAAACACTGGTCAGAGAGTAATACTGTGCAG
WI-4256	57	C T	---	---	ACAGCCTCTTCAATGGCACAATCAAAAGCACCCAGTAAAGCAGAGGCAAAATCTGG[C/T]CTCAC CATTTGAAAAGTCTTCTGAAGGATAAGGGAGTGAATGACTGCTAGAGAGAAATGATTGGCCTT
WI-4325b	71	C T	---	---	AGTTCACTGCCTAGATGAGTAGACCATGTTGTCTTTGTTAAATGTACATGGCAGGACCCGAAATGG GATG[C/T]TACTATAGATAATCTTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCCAGCCAC CCAGGACACTGCCATATCT
WI-4325a	58	C T	---	---	AGTTCACTGCCTAGATGAGTAGACCATGTTGTCTTTGTTAAATGTACATGGCAGGAC[C/T]GGAAA TGGGATGCTACTATAGATAATCTTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCCAGCCAC CCAGGACACTGCCATATCT
WI-4347	158	A G	---	---	TGGGCAGAACTCGGGTATGGCAAGTCAGGGTGGTTAACTTGGATGCCACTTCTGCCTGTCACTTCT CTAGACTCTTGACCCCTGCAGGAGGATCCCTGGCCTCCTGAGTTTATCATCTCCACCTCCAGCCAG GGCCCTGTATCTGTTTCAGGCC[C/A/G]GAATCGTCACGGCTCACAACTGTGGGAGGTAGGAATGACGA G
WI-1936	117	T C	---	---	CCAGTCTAGGCTGCAAGGACTTCAATTTCTGGGGCAAGTCTGGTGTGTGTAGGGTCAGAGGCAGCG ACCTGAGGGACACACAAACCAAGTGGGACACCCAGGGGTACTTGTATCACCTT/CJCTCCCGCAACCCCA AGCAGCACAGCTTGAGCTCCAGGAAAGACTCCTTACTTCCACTTGAGAAAAGGAGAGGGAAGAGA AAAGAGGACTTTGACACACAACTTGGGA

WI-5204	54 C T ---			---	TAGATTTTGATTGATGACAATAGGGAAGCCTTTGTTAAATGGGTTTTGAAGAA[C/T]GAAGAAAA TGGAAAGGGAAGAAATTGACAGAAACCAAGAGAGTGTGAGGGCGAGCAAAATCCAGTTTGACTGGA ATATAGAGTGATGTCAGGGTIG
WI-5215	70 A G C T C A A A A A	GGACCTTAAT ATTTAACAGA	AGATAATTTTG TAAAGATAGTT TTGCG	AGATAATTTTG TAAAGATAGTT TTGCG	TTTTCCCTTATTTATTTAGGAAGCAAAATGTTTCATACAGGACCTTAATATTTAACAGACTCAAAAA TAT[A/G]GCGAAACTATCTTTACAAAAATATCTCCATAGCAAGTAGACATTTTAGCACATTTTCTCT GTAGTCAAGGTTTTAAAGGCCAAATGAAGTTGACTAAAGACAAAT
WI-4448	112 T G A T A T A A	TTGTATCAAA GAGATGGGGT	AATTAAGAA ATCTTTACATG GTTCTTT	AATTAAGAA ATCTTTACATG GTTCTTT	CCCTGAAATGTGCTTTGCTTCTCTCCAACTCTCTAGGGAACTTTTCCATGTCAAGGTGAAGGTTTTGA AGAGTACTTTAATTAACCTGTATCAAGAGATGGGGTATATAAT[G/AAAGAACCATGTAAAGATTT CTTTAATTAGTGAATTTTCATCAGGGCTCTTCCACTGTCTATCAGTAAA
WI-4456	49 C T T A T A G T T C C	AGTTGAATTA TTCAGAAAAAT	TTTCTGTTAT GCATGAACITG	TTTCTGTTAT GCATGAACITG	ACACATTTCAATTTGCTTTAAGTTGAATTAATTCAGAAAAATATAGTTCC[C/T]CAAGTTTCATGCATAA CAGGAACACCCAGGTTGGGCAATTGATTGAATTGT
WI-4461	49 A G C C T T C C	TCACCTGTTATT TTAAAAATTAT	TTTGACCTTTG ACCAATTTCA	TTTGACCTTTG ACCAATTTCA	CTGAAACTAATGAGGTGCTAAATCACTGTTATTTAAAAATTATCCTTCC[A/G]TGAAATTTGGTGAAA GGTCAAGAATGAAATTCCTCACTTTTAGATTCTCGGAAATTTATTTGGGATGATAATGCAATGGGC
WI-4465b	75 G A ---		---	---	CTACTGGATTTTACTTTGCTCAAGCCAGACAACACGAAAGT[A/G]TATAAGAAAAACAGTTAGTAAT CTTTCACCTTTGTATTCTCTCTTCTACCTCAGGGAATC
WI-4465a	41 A G A C A C G A A A G T	AAGCCAGACA ATGAATGCCA	GGTGAAAGATT ACTAAGTGT TCTTT	GGTGAAAGATT ACTAAGTGT TCTTT	CTACTGGATTTTACTTTGCTCAAGCCAGACAACACGAAAGT[A/G]TATAAGAAAAACAGTTAGTAAT CTTTCACCTTTGTATTCTCTCTTCTACCTCAGGGAATC
WI-1949b	160 T C T A A T C	GAGTGAATAA ATGAATGCCA	TGAGAGGTGGG GACAAAAA	TGAGAGGTGGG GACAAAAA	GGGGTTAGGACCTCGAGATCTTTTCAGAAAGCACAATTCAAACCATAATGGCAGTGCACAGGTAACCA GTGGTGAGATGCTCTGAGTTCAAGGCTGCTGACATGGTCAATGCTGAATATATGTTGAAGAAATAAA GGAGTGAATAAATGAATGCCATAATCTCTGTGTTTTTTGTCCCCACCTCTCACACCTTTCCCTGG CACA
WI-1949a	86 T G A T G C T G A G T	CAGTGGTGAG	CCATGTCAGCA GCCITG	CCATGTCAGCA GCCITG	GGGGTTAGGACCTCGAGATCTTTTCAGAAAGCACAATTCAAACCATAATGGCAGTGCACAGGTAACCA GTGGTGAGATGCTCTGAGTT[G/CAAGGCTGCTGACATGGTCAATGCTGAATATATGTTGAAGAAAT AAAGGAGTGAATAAATGAATGCCATAATCTCTGTGTTTTTTGTCCCCACCTCTCACACCTTTCCCTGG CACA
WI-4529	64 T C A A G A T G	CCAAGTAAGT CTATCATCTG	TTCTAAAAATA ACACTTCTGA AAAA	TTCTAAAAATA ACACTTCTGA AAAA	TGAGAGAGTTTTTGGATTATTCATCCTCTGCAACACTCCAAAGTAAGTCTATCATTTCTGAAGATG[T/C] GAGTTCTCTTTTATATCCTATGATTATTTTTCAGGAAGTGTTATTTTGAATATAAACTCCTGGGT CCCATCCAGGTCTAGGGTCAATGGCATCCATGGGTGCTGGACAAGATGGGCCCTTAGGATCATTTT

WI-4540	110 A G	GCACATGTGG CATCC	GACAATGCAGC CATGCA	AGCTTTTCCTTTCTTAAAAATGGTGCCATAGTACTGGCTTCTGTGTGTCATCAGGAAGCAAGCCTAT TGCTCGGTAAACAGTACTTTGCAATAAGCACCATGTGGCATCC[A/G]TGCATGGCTGCATTGTCCAGTC AAATGAGACAACCTCCTAT
WI-4582	226 T C	---	---	AGCAAGCATCTGGCAAGCCTCGGTGACCAGAACATTAATTCACCAAAACACCACCTGCTGCCAAATGT CCATGTTAATGCAATTATAGAAGACTCCAGTAGCATTCAGGCCAGTTTAACATTATTCCTGTACACA AATAACTTTATGGGAGACAGCATTTGTAATTCAAATCAATCAATGAATGACTCGGTTGGCTGTACAAGCAT AAACAGAAGCCTTGCAAAATATGGTT[C/C]CCTCCTGGCTAGAAACCATTTGAT
WI-1965	105 G C	AG	GAATGGATGGG TCATCTCTCT	CAAAGGTTAGTTTAACTTGGGGGCAACACAAAAAGTTATGAGTACTCAATAACCTATGTTCAAGGG TAACCAACACCTTTTGGCATTGAGGAAGTGTAAAG[G/C]JAGAGAGATGACCCATCCATTCCCTGG GCTTCCTATATGACACCATACTATCCACACAGATGTGGAGTCATTTATTTGGTTGGTGTATGACAGT CATGG
WI-5248b	99 C T	TTG	AGAAAAAGAG AAGAAGGGAA AAA	TGTTTAAACCATACAGTTTGTGCTGCTACGTTGTTAGAGCAACCCAGAAAAATTAACAGCCTAC CATTTTCACTGTTTCTATTGACCGTACTTG[C/T]TCTTTTCTTTTCCCTTCTCTCTTTTCTG CCCTCTTTTAACTATT
WI-5248a	38 G C	CTACGTTGT	TTTTAATTTTC TGGGGTTGCT	TGTTTAAACCATACAGTTTGTGCTGCTACGTTGTTA[G/C]JAGCAACCCAGAAAAATTAACAGGCC TACCATTTTCACTGTTTCTATTGACCGTACTTGCTCTTTTCTTTTCCCTTCTCTCTTTTCTG CCCTCTTTTAACTATT
WI-4596	69 T A	AGCACTGGA	CAGGAGATGGG CCTAATAATG	CATTGGTGGTCCAACTTCTCGGTGACATTACTCTGTGACTTTGCTCTGAAGCAGAAAGCACTGTGA C[T/A]CATATTAGGCCCATCTCCTGCTGAAGCCTGCCACAGCAATTTGTACATATGGCATTGGG ACATACTCTGAGCCCATCACTATTGACAAGATTCTCCTTTTAAACAA
WI-5252	119 A C	---	---	GAAATAGGGCAAAATTAAGACTTCAATAATTAGAAGTCTTGGGAAAGGATTTGTGATGATCATTTG AATCTGTTTAAATACAGAAATTAATACTGAATACCTGTGTGAATCATTTGCTTT[A/C]TACCATGTACA TATTATATGAATTAACAATGTAAATAGTATGACTAAGAAATATTGGGCCCT
WI-4606	61 A G	CT	TTAGGTGCTTA AGTTGTCTACT TGG	TGCAAAAAAGGAAAAATGATAACCAGGACTGTTGTTCAAGCAATGCTAGAAAAATATGCCTA[A/G]C CAAGTAGACAACCTAAGCACCTAAGGCAGAAATGAAAGTTTCTCTTGTCAATTAAGTCCCTCTATTCA ATTACCATTTATCGGGTAATTAACACTGGAAGTAATGCCAGGCTAATGTTAGATTATGATAAT TACACGCTTTGCTATGCT
WI-5257	77 C A	GCAAGAGG	CCAGGGGCAGA TGAAAG	CAATGAGAAGTTACCAGATCGGGGCAAAATTAAGCATATGAAAATACCAAGTGTGGCAGAGGCATG AAGCAAAAGAGG[C/A]CTTTTCATCTGCCCTCGGTGGTGTTCAGTAAGTCAACATGCTTTTGCCTCC CGGATGAAAAGATACCCCTCTATGACTCAGCAATCCACTCCTAGGTATGCACCCCTAAACATGGGTG GCAAAAT
WI-4649	50 C T	TTCCGAATG	TGACTAGGTG TACTTACAAGA AATCATC	TCACTGTTTAGAAATTTCTTCTCTCAGTGAGACCATTCTTCCGAATG[C/T]GATGATTTCTTGTA AGTACACCTAGTACATCTATGAGCACACAAATTAACAAGTACTTGCTACCTGAATTTGTAATTTTTTAA AAAACTCTCCCAATATTG

WI-4650	148	A G G T C T T	GCACAAAGAA AGTATAAGTT	CTGAAGTGTTA AACTGGATTGG G	AAC TGTGTGGTATGTA TTTGTTGTATTTCTGGAGAGTCAGTTACTCTCACTAGATCATAAAGGG GACTTGGGAACCAAGATATCTCAAGACATTTAATCCTAGAAGCACAAAGAAAGTATAAGTTGTCTC TTATAITGCTTTT[A/G]CCAAATCCAGTTTAAACACTTCAGTAACGTT
WI-4677	82	T C A A A	TCCAAAAGTG ATTAGGTGAA	TTTCAACAGTG TCATTATTCAA CTT	AATTCAGATTTTGAACATACGTCGACATTTTGGAAAAAATTTGCCAAAAATGTCAAAAAGTGATTAGGTGAAAAAAT GAGTTGAAATAAATGTT[C/JAAGTTGAATAATGACACTGTTGAAAAATGATGAATCTGCTTTCAATTCA CATGGAAGGAGACTAGAACACAGCAGGTTTATAGGGGAATACTCAT
WI-4698	135	C G ---		---	ATGATGCTATCATGAGGAATTTCTGTAGAAAAATTTTACCTGGCAATTTGATTCAATAAAGTTTGTCC TCACCTGGGAAACTGCTTATCTTGATGTCAGTGACATTTCTTTCTTTTGACGGGAAGAAAACTTCAA C/GTTTCGAGAAGGCTTAGATTATATCGCTGAAGCCCATCTG
WI-4722	88	G A A C A C C A C A C	TGCACTATGG AACACCCACAC	AATATGGAATC TGCAATTCAGTT G	CTTCCCATTTCTGCCCAGTTAGATGACTGCCTCTCCACCAGCCTAGAAAAAGATGGGAGATTTATTTTC TGCACATATGGAACACCCACAC[G/A]CAACTGAATGCAGATTCATATTGAATACTGGGAAATCAGTGA AAG
WI-2020	145	C A ---		---	GCCACAGTAAAGAGGAAAAATGGAGCCATGTAAACAGAGGAGAGCTTTCTGAAGATCAGTGTATTGTCA TAAAGGTCAGTAAATCACCTTTGATGTTGAGATTTTCAAGAACGTAATTTTATGAGTAACCATGGG TCAACTATGAT[C/A]CCAAAAACAGCAGTGTGTCTAAAAAATATGATAGTTTCTTCTCTCTGTCACCC GCAATGAAAAAGGAGTT
WI-2028	176	T C C T G T C T A T C	TGTTACGTTT CCTGTCTCATC	GGTTGGAAACT CAAAATTACCTA GAA	GACTACAGCGCACAGACAGGCAATTTGTGGCTTGCACAGGTGTTGGTTTGTGTTTAAAGTTAGATT TGAATCCTTTAAAGAAAGAAAAAGTGGCTCTTTCAGTTTACTACAGACCTCATCATCTCCTGTTCTCTTG CACCCAGTCCACTTCACCTGTTTACGTTCCCTGTCTCATCTT[C/J]TCTAGGTAATTTGAGTTTCCAAACC TGTTGG
WI-2033	183	T C A	GGGTGCTAGA ACTAATCCCTC	CAGTGGTTCCA CGTTCTCC	ATGTGTATGAGCTCCACATTCGCAGATTCACCAACTATGGATAGAAAAATATAGTATTCACAGATGG GCAGCCCAAGGATCAGAGGGCTAATTTTAAATTTTCCAAGTTATACAGGACCAGTGTGGAAATTTT AGCAATTTCTGGGTTTGGCATCCATCAGGGTGCTAGAACTAATCCCTCA[T/C]GGGAGAACGTGGAAACC ACTGATATACCAAT
WI-4745	131	T C ---		---	TTATGGATACATGTTTTCTGGTGGAGGACAAAGAGTTGAAGCAAAAGGACAAAGGAGATCAACTGGG TAGAATAACTCATCGATCCACAGGCCTCCTTCCACCATTTCTCCATCCTACTTTCTACTCTGA[T/C] AGGCAGACTTATATGGAAAAAAGGGA
WI-2034	150	T C C A A G G A C	CCACAGTGCA CCAAGGAC	GGGTAAGAT AGAGTCAGGT CC	CCACGACTATGCTTCAGAGTCCCTGGTACTGACAGAGAAGGCTTTGAGGACCATGTGGCGCCCAAGA CCTCCTTCTGGGTTTCAGTGAAGAACGATGAACCTCTCATCTTCTACAGCAGCTGGACTTCACCA CAGTGCACCAAGGAC[T/C]GGACCTGCACCTCTATCTTTACCCCTCCGACACCCAGATGCTGAGATGCC ACACTCTGAGTG

WI-2038	155 C T	ATTAATTAG	TGTGCTTTAAA GTGTGTAAGT	ATTCCTCTTG AAAGAAACAT CA	TCAGGTGACAAAGAAAGTCACATTTCTTCAATCACTCACCATTGTCTGTATTGTCTCTTGCAGTGT ATCCAAGGATGTCACCTTTTGGAACTCTGTAGATCAGAAAAAACTGTGCTTTAAAGTGTGTAAGTATTA ATTAGATTCTATTATTGATA[C/T]GTAGTCTTTTCAAGAGGAAAATTTGTGAAGAGGATTCCCAATT TGCATTTCATTGGC
WI-4782	113 C T	AATGC	GATGCAGAAG ATAACTAGAA	GAACCTCTCTG GTTATTTTCT GTTG	TCATTGACTTTTAGAGTTCCTTCAGTCTTTATGTCCTTTTATGCTTATTTCTTTAGGAAAAAACTAGGCTAGGAGAA CACAAATTCAGGTTCTCTCCAGATGCAGAAGATAACTAGAAAAATGC[C/T]GAACAGAAAAATAACCA GAAGAGTTCATTATGGTTTTTTTCCAGAACGATTAC
WI-4788	65 A G	TTCC	GCATAGAATC ATCTTGCTAAG	GGATAAAAT AAAAATTTTGGC ATAA	AGGAGAGTTTTGGCTCTTTCCGGACTCTTGGAAATCAGTGCATAGAAATCATCTTGGTAAGTTCC[C/G] JTGAAAAAAATTAATGCCAAAAATTTAAATTTATCCAACTTTAAGTCGAGATTATAATTGATATTT AAAAAACTATATTGAGTCTTTCTAAAAAGATGGCGTATCACTCTA
WI-5300	38 T C	CAC TTC	TCCAGAGAC	CTACTCTTTCT ATTCATAATC CAAAAA	CTTACTTCCAAAGTGTTTCCAGAGACCCTTCATTCT[C/T]TTTGGATTATGAAATAGAAAAGAGT AGGTGTTATTATTCCTCTTTTACCAAGGTGAAATTTGAGGCTCAGAGACAAGGTAGATGATGAGCCCCA AGGTCAGTGACAGAGCCA
WI-4818b	121 G T	GCCCTGTT	TGATAATGGG	CCCTCCTTTTA TATGTATGCCA GA	TATAATGTTTTGTTCCATAGTTGCCATAGACTAGGTTATGTCCACACATGAATAACAATCTTATATA ATAATTTATTCGAAGGAAAAATATACATATGGGGTGATAATGGGCCCTGT[G/T]CTCTGGCATA CATATAAAGGAAGGCTAA
WI-4818a	43 A G C		TTGCCATAGAC TAGGTTATGTC	CATATGTATAT TTCCCTCTTG AATAAAT	TATAATGTTTTGTTCCATAGTTGCCATAGACTAGGTTATGTCC[C/G]CACATGAATAACAATCTTAT ATAATAATTTATTCGAAGGAAAAATATACATATGGGGTGATAATGGGCCCTGTGCTCTGGCATA CATATAAAGGAAGGCTAA
WI-5317	139 T C	GTAGCAGGT	TTCCATTCTG	GATGCAAGA AGAAATGAGTC C	TTTTCCATTTGTTTGATTCTTTTGTCTGAGCCCTTAGATCTCCTTTAAATTAATAGCAAGGTTAAT AATATAATAATATGATGTATATATACAAATTTCAACTCAACAGGAATTCATTTCTGGTAGCAGGT ATA[C/G]GGAAGTCAATTTCTTTGTCATCTATTTCTAGGTTATTTGCAGCCCCGAGATCTACCCAGG
WI-4888	56 G A	AAAGATAACA	GCAAGATATA AAGATTAGA	CAATTCCACTA CCTCATTTATT CA	AAATGAGTAACCCCAAGTTACTCGGCAAGATATAAAGATTAAGAAAAAGATAACAAGA[G/A]ATGAAT AAATGAGGTAGTGGAAATTTGCTGATAACTGGAGTAGTGCTT
WI-5328	44 A G	---		---	AACATTTTTTAACCATGCTACATTTACAACACTGAAAAAGACAG[A/G]AAAAAAAAGAAATATTTTG CCTCAAAAAGCTCTTAAGAGATTATGTAAATAAAGAAAAAATATGAATCAGAAAAAGGAAAAAAT AGAAACACGTGATACTGGAAAGGAG
WI-4897	93 A G	---		---	GCCTTTTGTAGTTTAAAGTCTTTTGTAGTGTCCTTTTTTTTTTCCCCCACTAGGTACTCTCGGCCCAAT CCCCAAAAGAAAAAAGCGCTGG[A/G]GATAAACACATCTTC
WI-5345	29 G A	---		---	CCCTGCTATAGGTCAGTTTAAAAATCCT[G/A]CCTGCTATGGTTGCTTGTGAAGCCACATCCACT GAGGTATATTCTGCTGCAITTTCTATATCACTCAGCTTTCAGATCCACTCCATCAACTTGCAG

			AATAAGATGG TACCTTAAC TA	CAAAGTTGGTA CAGAGAATTC	TGCATGTTACTCTTGAAATCATAAAGGGGATCTGAGAGCCTACAGTATATGGCAACATTAAACCAAT CTTTTTGA AAAATTTACCTGTATCCCATCATGGTTCAATTTGCCAAAAAATAAGATGGTACCCTTAAC TA ATAAAAACAATTC/TTTTGA AATCTCTGTACCAACTTTGCTTTTC
WI-5370	143 T C	AATAAACAA	---	---	GATCCTCTCATCCCTCTCCAGAAGAGGAGAAAGAGGAACACAAGAAACGCCTGGTGCAGAGCC CCAAITCCTACTTCATGTGATGTGAAATGCCAGGTGAGGAGACGGCTTCTGTAGTGGGAAAGCAC TGGACCTCAACAGTTGGAAAATGTTGTAGTTAGCTGCTCGTATCCTTGAAGCTGTGCAGCAGCTT CAGTTCTTCGCCCTGTGAAAATATTTCCCTGATACTCTTAAAATTTGAATG
WI-9711b	423 T A	---	---	---	GATCCTCTCATCCCTCTCCAGAAGAGGAGAAAGAGGAACACAAGAAACGCCTGGTGCAGAGCC CCAAITCCTACTTCATGTGATGTGAAATGCCAGGTGAGGAGACGGCTTCTGTAGTGGGAAAGCAC TGGACCTCAACAGTTGAAAATGTTGTAGTTAGCTGCTCGTATCCTTGAAGCTGTGCAGCAGCTT CAGTTCTTCGCCCTGTGAAAATATTTCCCTGATACTCTTAAAATTTGAATG
WI-9711a	390 C A	---	---	---	GGAGGAATTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAG ACTGGTCTGAAGGTGACAGGTGCCCTCTGTGCCCTATTCAGCAATCCCTACTGGTATGTATCAGGAT AGAGGTGAATCAAGCTGATAATTTGCAACTTCTCAGTTTATTTCTAACTTTAATGATCTCTGTGACTT TTATACTAGCTTTAAGAGGTTTTCATTCAGTGTGCTACAGCATCTGATAG
WI-9702c	345 G A	---	---	---	GGAGGAATTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAG ACTGGTCTGAAGGTGACAGGTGCCCTCTGTGCCCTATTCAGCAATCCCTACTGGTATGTATCAGGAT AGAGGTGAATCAAGCTGATAATTTGCAACTTCTCAGTTTATTTCTAACTTTAATGATCTCTGTGACTT TTATACTAGCTTTAAGAGGTTTTCATTCAGTGTGCTACAGCATCTGATAG
WI-9702b	344 C T	---	---	---	GGAGGAATTCAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAG ACTGGTCTGAAGGTGACAGGTGCCCTCTGTGCCCTATTCAGCAATCCCTACTGGTATGTATCAGGAT AGAGGTGAATCAAGCTGATAATTTGCAACTTCTCAGTTTATTTCTAACTTTAATGATCTCTGTGACTT TTATACTAGCTTTAAGAGGTTTTCATTCAGTGTGCTACAGCATCTGATAG
WI-9702a	179 C T	---	---	---	CITTTATACTAGCTTTAAGAGGTTTTCATTCAGTGTGCTACAGCATCTG TATAGTATTTAACGAAGCCTAGAACGACGGCTGTGGGTGGTATTTGGT[C/A]AGCATATCTTAGGT ATATAATAACTTTGAAGCCATAACTTTTAACTGGAGTGGTTGATTTCTTTTTTAATTTTATGGGA GGGTTTGGATTTAACTTTTTTAACTGTTTAAATAATTAAGTTTTTGTAAGGAAAACCATCTCTG TGATTACCTCTCAATCTATTTGT
TIGR- A003N21	49 C A	---	---	---	AGAATGGCTACTTCATAGGGCAGAGCAGCCACTTTTGGCTAATTTTAAACATCCAAAAGCTAATAAT AATCAAGAAGAAAATAGAGAACATTAAACAAAATAAATATGTTCTATTTGGGAATACCTAATATCAG ATACTAACAAAGTACAGTGATAAGAAATAAAAAAGATAATAATACACATACCTTCTAGGTTAGTAGA AAAG[C/G,T]CTTCTAGGTTAGTAGAAAAGTT
TIGR- A004V30	203 C T	---	G	---	



TIGR- A004W22	232 C A ---	---	GGATAAATCAGTACAATAATGGGGACCTTAAACTGCTGTGATGCAGGAGTGGAGGGCTGGGCAGTG CCCGAGGCAGGGGAGGACAGTGGGACAAGGGATGCTCAGTGGTGAGCCACAGCCCTGGGCTCTGGA TGGGGCATGGGAATGACCAGGTTCCACATCATGCACAGCAGGGGCTGTAGCTTGAGTCCAGACAG GCCTGCCACATTGGTGTGCTGCCCCCGCCTA/C/A/CTGGAGATGTCTCTAAAA
TIGR- A005D24 b	138 C T ---	---	CATAGAAAGGAGTCTTTGAGTATTGTACAGTTTTGAAAATTCCTTTGAGATAATTGATTTTCATATTC TGTCCTTTCAACCTCCATTTACCTCTTGTCATTTCAACATCTTTATAGAGAAATAAAAACCCCAATTT CTC/TJTTTCAACCATTTAGTTGATTATCATCTGGATTTTCACTCAAGATGCAGCTCCTAAGATTATT GTTATGTTAAATTCATAAATCCTCTTACCCTTTAATAATTAGGAAACAAT
TIGR- A005D24 a	123 A G ---	---	CATAGAAAGGAGTCTTTGAGTATTGTACAGTTTTGAAAATTCCTTTGAGATAATTGATTTTCATATTC TGTCCTTTCAACCTCCATTTACCTCTTGTCATTTCAACATCTTTATAGAGAAATAAAAACCCCA TTTCTCTTCAACCATTTAGTTGATTATCATCTGGATTTTCACTCAAGATGCAGCTCCTAAGATTATTG TTATGTTAAATTCATAAATCCTCTTACCCTTTAATAATTAGGAAACAAT
U03735	74 C G ---	---	TGAGCTGAGCAGGATTGCAGCCAGGCGGAGTGGAGGGGTCTGGCCAGTGACCTTCGGGGGCC GCATCC/C/GTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCATTTCTCACTCTTTGAAGCGAGCAG TCAGCATCTTAGTAGTGGGTTCTGTTCTGTTGGATGACTTTGAGATTATCTTTGTTCTCTGTTGGA GTTGTTCAAATGTTCTTTTAA
U39840b	42 T C ---	---	GGTTGCTCTGGCATAGCCATGCTGGTAGCAAGAGAGAAAAAAT/C/CAACAGCAAAACCAACCCACA CAAAACCAACCGTCAACAGCATAATAAAATCCAAACACTATTTTATTTCAATTTTCATGCACAACC TTGCCCCCAGTGCAAAAGACTGTTACTTTATTTATTTGATTCAAAAATTCATTGTGTATATTACTACAA GACGGCCCCAAACCAATTTTTTTC
U39840	56 A C ---	---	GGTTGCTCTGGCATAGCCATGCTGGTAGCAAGAGAGAAAAAATCAACAGCAAAACCA/AC/JACCACA CAAAACCAACCGTCAACAGCATAATAAAATCCAAACACTATTTTATTTCAATTTTCATGCACAACC TTGCCCCCAGTGCAAAAGACTGTTACTTTATTTATTTGATTCAAAAATTCATTGTGTATATTACTACAA GACGGCCCCAAACCAATTTTTTTC
WI-8997	41 G A CCCC	---	GTGGCCATCGATCTGGACCGTCCCTGCCCACCTTGCTCCCQ/G/A/JTGAGCACTGCGTACAAACATCCA AAAGTTCAACAAACACCAAGAACGTGTGTCTCATGGT
WI-7008	180 A G ---	---	TATACCCTTCCATTTGATGATGGAATGCTGCTGTTTCATGACCAACTTTATGGCTAGATGGGTACAGAA AGCACCAGTTCATGATAGGAGTTCAGGTCATATGTTGACTTGTATGACCCAGAGTCAACACTTCAG TTTCCACCAAAAGCCCCAGTAACAGGCCAAGAGCTGTCTCTCAAAAG/A/GIAGAGTAGTTATCTGCAGA AGATGGCAGGGCCTTGCTCCGAAAGCCTAGAGACCGCCACTGTGATTCACT
WI-9005	26 C T GGGAACTCT	CGAATTTGCTG	GGTCCACGAAATTTGCTGGGAAATCT/C/JTGTCTTCTTAAGACTTTTGGGACATGGTTTGACTCC CGAACATCAACGACCGCTCTCTGTTTCTGGGTG



WI-7593	46 G A ---	---	TTTTTGTTCCTGGACCCCACTGCTCCAGGATGAAAGGAGAG[G/A]AATGAGATCAGTTTGGACACTTCCTCTTGAATATAAAGAAATCAACAGTTACAGTCATGTTGGGACTTCTTCTCTCTCCAA
WI-6962	78 A G ---	---	AGTGCATCTTGGGGAAAGGCTCCAGTGTATCTGGACCAGTTCCTTCATTTTCAGGTGGGACTCTTGATCCAGAGA[G/G]GACAAAGCTCCTCAGTGAGCTGGTGATATAATCCAGACAGAACCCAAAGTCTCCGACTCCTGGCCTTCTATGCCCTCTATCCTATCATAGATAACATTTCCACAGCCTCACTTCATTTCCACCTATTCTCTGAAAATATTCCTGAGAGAAACAGAGATTAGATAAGA
WI-7059	43 C G GCCATC	AAGCACCCA GGTCA	GCAGAGAAGAGAACCATGCCAGGGGAGAGGCCACCCAGCCATC[G/G]TACCCAGCGGAGGCCAACTATCCCAAATATACCTGGGTGAAATATACCAAATCTGCATCTCCAGAGGAAAAATAAGAAATAAAGATGTTTGCAACTCTTAAAAAA
WI-9063	53 A C TT	CACTTCACTGA AAGACACCAT CCCTTGGGT	AGCAGCCATCACATGATCTGTTTTTACCACCTTCACTGAAAGACACCATTTAT[G/C]TACCCCAAGGCAGAAAGTAGAACCTACTATTCAATAATGTTTGACACAATTGGAAATTGTC
WI-7079	293 T G ---	---	AAGGGGCATTGAGACTATAAAGCAGTAGACAAATCCCACATACCATCTGTAGAGTTGGAACTGCATTCTTTAAAGTTTATATGCATATATTTAGGGCTGTAGACTTACTTTCCTATTCTTTCCATTGCTTATCTTGAGCACAAAATGATAATCAATTAATACATTTATACATCACCTTTTGCATTTTCCAAAGCCC
WI-9074	38 A G AAAAG	GGTAAAAGTT CTTTTGTCTCT TT	TTTTACAGCTCTGGCAATTTCTCGCCTAGGCCGTGAGGTAACGGGAT TGGATGCCGAGGTAAAAGTTCTTTTGTCTCTAAAAAGAA[G/A]AAGAACTAGGTCAAAAAATCTGTCCGTGACCTATCAGTTAATTTTAAAGGATGTTGCCACTGGCAATGTAAC.TGT
WI-7104b	249 C T ---	---	GGAGTTGCCCCCTCCTAAGGGAAGGAGATCTTTATCTTCTGGTTGGCTTGACCAGTCACGTTGGGA GAAAGAGAGAGTGCCAGGAGACCCCTGAGGGCAGCCGTTCTTCTACTTTGGACTGAGAGAAGGGAGCC CCAGGCTGGAGCAGCATGAGGCCAGCAAGAGGGCTTGGGTTCTGAGGAAGCAGATGTTTCATGCT GTGAGGCCCTTGACCCAGGTGGGGCCACAGCACAGCATCTTTG[C/T]
WI-7104	157 C A ---	---	GGAGTTGCCCCCTCCTAAGGGAAGGAGATCTTTATCTTCTGGTTGGCTTGACCAGTCACGTTGGGA GAAAGAGAGAGTGCCAGGAGACCCCTGAGGGCAGCCGTTCTTCTACTTTGGACTGAGAGAAGGGAGCC CCAGGCTGGAGCAGCATGAGGC[C/A]CAGCAAGAAAGGGCTTGGGTTCTGAGGAAGCAGATGTTTCAT GCTGTGAGGCCCTTGACCCAGGTGGGGCCACAGCACAGCATCTTTGCT
WI-8974	34 C T AAGAACTCA	CCTGAGCCCTC GCTGGC	CATACAATGAGAGCCCTGAGCCCTCAAGAACTCA[C/T]GCCAGCTCAGCCCTACACCAGTTTCCACC TGGAGTTTCATGCAAGGGCAAGGCAGTGCCATGCAAGCTGTTAA
WI-9161	61 C T OCTGGC	GCTTACAGGAG AGACTAGACA GGAA	CTGTGAGGGTGACGTTAGCATACCCCCAACCTCATTTTAGTTGCCTAAGCATTGCTGGC[C/T]TTC CTGTCTAGTCTCTCCTGTAAAGCCAAAGAAATGAACATTCCA
WI-9014c	93 T C ---	---	CCCTGTTCCCATGCTGACCTGTGTTTCTCTCCCAAGTCACTTTCTGTTCAGAGAGGTGGGGCTGGAT GTCCTCATCTCTGCTCAACTTTAT[C/G]TGACACTGAGCTGCAACTTCT

WI-9014b	44 C T ---	---	---	CCCTGTTCCCATGCTGACCTGTGTTCTCTCCCAAGTCATCTTTC/TGTTCCAGAGAGGTGGGGCTG GATGCTCCATCTCTGCTCAACTTTATGTGCACTGAGCTGCAACTTCT
WI-7023b	206 C A ---	---	---	TCTGAGAGAAATGACTTGTGGGAGACACCTGCAGATCCTCATGGTTGTGACAGACCCCTGCGTGCT CAGTGGCCCTTAAAGTGATCCCGCTGTGCTGACTTGTAGTGGATCAACATCTGCTCCTACGGTCCCC TCTTTTGGCCCAAGTATTCATGGCAGGTTTGTGGACACCTACTAGCTTCCCTTCCCATTTCAACAC A/C/AJACACACATCTTGCTCTACCCAAAGCTCTGGCTGGCAGCACTAA
WI-7023a	56 A C ---	---	---	TCTGAGAGAAATGACTTGTGGGAGACACCTGCAGATCCTCATGGTTGTGACAG/A/CJCCCTGCGT GCTCAGTGCCCTTAAAGTGATCCCGCTGTGCTGACTTGTAGTGGATCAACATCTGCTCCTACGGTGC CCCTCTTTTGGCCCAAGTATTCATGGCAGGTTTGTGGACACCTACTAGCTTCCCTTCCCATTTCAA CACACACACACATCTTGCTCTACCCAAAGCTCTGGCTGGCAGCACTAA
WI-7093	54 C T ---	---	---	CTGAAATCCCTCTCTGCTGCTGGTGGATCCGGGACCCCTTGGCCCTTCCCTTC/TGGCTCCCAGCC CTACAGACTTGTGTGACCTCAGGCCAGTGTCCGACCTCTCTGGGCCCTCAGTTTCCACAGCTATG AAACAGCTATCTCACAAGTTGTGAAGCAGAGAAAGCTGGAGGAAGCCGTGGGGCCCAAT GGGAGAGCTCTTGTTATTATTAATATTGTGGCCGCTGTTGTGTTGTTA
WI-9171	62 G A ---	---	---	ACATATCTGAAAAATGTTGAAAGCCTAAGCCAGGAATAAAGAAAAAGTAGAGATAATAATCA[G/A] TTCTTACAACCGATGGTAATTAAGCTTGTATTCACAAGACTTCAATGC
WI-9174	47 T C T	CTAGGACCCC ATTCTCTATT	TCTAGAGGGTA TATAGGACAGG ACTG	GTGTGAGACCATCATGGTGCCAGTCTAGGACCCCATTCCTCTATTTA/CJ/CAGTCTGTCTCTATATA CCCTCTAGAAACAGAAAGCAATTTTAGGCAGCTATGGTCAAAATTGAG
WI-7753	52 A G GAAGAACAGA A	CCATGTTCCGA	CAGAGGCTTG AAATACAGGG A	AAGGCCAGATGCACATCCCTGGAAGGACATCCATGTTCCGAGAAGAACAGAT/G/ATCCCTGTATT TCAAGACCTCTGTGCATTTATTAAGCTGCCCTGCTCCACAGAACACAGCAATTCCTCAGGCTA AGCTGCCGGTCTTAATCCATCCTGCTAAGTTAATGTTGGGTAGAA
WI-9186	76 G A CGCA	CCACTTCTCCC	AAAGGAAAG TCTGACCTAGG T	AAAGAACTACAGAGGACGATGTCCAAAACAAAAATGGCATCACCTGTCAAAAATGGAGTTCCACT TCTCCCCGCA[G/A]ACCTAGGTGACAGACTTTCCTTTTCATCTT
WI-9193	94 G A CA	AGAATATTGT CTGCCCTAAAG	GGTGTGTGG TAGGGGG	TTGGACAAACCTAGAAATTTCTCCCTTTATGTATCTCTATCGATTGTGTAGCAATTGACAGAGAATAA CTCACAATATTGTCTGCCCTAAAGCA[G/A]TACCCCTCCCTACACACACACCCCTGTCTCTC
WI-9015	48 C T ---	---	---	TTTGGATTGATATCGTGAATCCTCAGCCGAGAAATTGGGCTGGATTG/C/TGGCTTTGGTTAATACAT CTTTCCCTAAAGAAGATAAACACAAAAATCCATTCAGGTAGCTCGGCACCACTAAGAA
WI-7254	37 A G AGGACCCAC	GGTCTGAGAG	GGAGTGGGTGT CATTAGGGA	GGAGCCAGGAGACAGCAGGGTCTGAGAGAGGAGGCCAC/G/GTCCCTAATGACACCCACTCCTAGCC CTGAGGCTGTGCCCCCTCAGACTGGGGAAGAGTCCAAAGGAGGGAGGAGCCACTCCTCAATGC TCAATGGCTCCCTGAAATCAAGACAGG

WI-9231	32 GC	CAGTCCCCCA GATTGA	CAC TTGCCAC ACTCAGAC	GTGACCC TGTGAGGT CAGGTCC CCCCAGATTGA[C]GTCTGAGTGTGGCAAGTGTGTCAAAGGGGC TGCCCCCAGGAGATGAGGCTGAGAGCAGGAGTTGAGGCCGAAGAAGTCA
WI-7836	120 TC	CAAAATAACA ATGCAACGTT	GCTCTCAGAAC CAAGATTAGA AATC	TTGTTGGGAAATAGAGAGTTGAGATAAACACTCTCATTCAGTAGTTACTGAAAGAAAACCTCTGCTA GAATGATAAATGTCATGGTGGTCTATAACTCCAAATAAACAAATGCAACGTTCC[C]GATTTCTAAT CTTGGTTCTGAGAGCCATTGGTTTCAGTTGTAGCAATCCCATACCCAGCT
WI-7286	65 TC	CAGCTTCAGCT TAAC TGACAG	AAACAATCTA ACCAGAAAGCT TTAA	TCCATTCTTTTGGCCCTGCAGCATGTCTGCTCCAGAAATTCAGCTTCAGCTTAAC TGACAGATTC JGTTAAAGCTTTCTGGTAGATTGTTTCACTTGGTGATCATGTCTTTTCCATGTGTACCTGTAAATATT TTCCATCATATCTCAAAGTAAAGTCA
WI-7858	91 TG	CTAAGCATGT ACGTGAATTT	CCCAATTTTA TTAAAGTTTA CATCTAT	CAAAATCTTGAAATATCTCAAATGTTAATAACAATATGAATTTTCTCATGCATACTATTACTACT AAGCATGTACGTGAATTTTAAATTTGTTATAGATGTAAACCTTTAATAAAAAATTTGGGTGTGG
WI-7860	50 CG	A , G	---	GAAGATTAAAGGAGGGTGTCTGTGGTCTCTCCCTGCCCTCTCCCCA[C/A]GTGGGGAGAGACC TGTGATTTGCCAAGTCCCTGGACCCCTGGACCAGCTACTGCGCTTATGGGTTGGGGTGTAGGCAGG TGAGCGTAAGTGGGGAGGAAATGGGTAAGAGTCTACTCCAAACCTAGGTCTCTATGTCAGACCAG ACCTAGTGTCTCTAGGAGGGAACAGGAGACCTGGGTCTCTGTGGAT
WI-9064	29 AG	CGTACCTCCAA ACATAATTGA TTC	GC TTGAGTGA AGTCTCGAGA	CAAGGCGTACCTCCAAACATAATTGATTC[A/G]TATCTCGAGACTTACACTCAAGCAATCCTGAGG AATACTGAGGAGGGCCTGGCTACTGTCTCTGCACTCTGCTGCTTTG
WI-7307	128 GT	---	---	CACACTGTCTGTTCTTCAGTCTGGAGGTCTCGCAGGTGAGGTGGGTAAAGCCGGGTTCCACA GGCCCCAGCCCTGGCAGGGGTCTGGCCCCCAGGTAGGCGGAGAGAGTCCCTCCCTCAG[G/TA]ACT GGAGGAGGGGACTCCAGGAATGGGAAATGTGACACCACTCTGAAGCCAGCTTGACCTCCAGT TTGCACAGGGATTGTCTGGGGCTGAGGGCCCTGTCCCCACCCCGCC
WI-9274	25 CT	GAAATGTGAC TTCAC TTTGGT G	CAGGTAGAATT TTCTGTCCAAT G	GAGGAAATGTGACTTCAC TTTGGTG[C/T]CAATGGACAGAAAAATTCACCTGTGCTACATAGGAGAA GTTTGAATGCAC TTAATAGCTGGTTTTACACCTTGATTTGAGGTGAAA
WI-7313e	266 TC	---	---	AATTCCTTTTCTGGTAATCAGGCACATGATGAAC TTTGATTAGTAGGTCTGTGATTAAGTCTTAAAT TGTTTGCAGCTTTTATGTTTATATCATAGGTATAGGTGGACCTAAATCCCTTATCATATCTTTATT AATTCAGCCAGTGTATCCACCAGTTTTTTGTTATGTTTTTAAGTAACCTATTATCTCTGGATTTCATG AAGGTGTAATATCGTTTTTGTAAACTGAATAGAATTGTATAGCGATGA
WI-7313c	256 CT	---	---	AATTCCTTTTCTGGTAATCAGGCACATGATGAAC TTTGATTAGTAGGTCTGTGATTAAGTCTTAAAT TGTTTGCAGCTTTTATGTTTATATCATAGGTATAGGTGGACCTAAATCCCTTATCATATCTTTATT AATTCAGCCAGTGTATCCACCAGTTTTTTGTTATGTTTTTAAGTAACCTATTATCTCTGGATTTCATG AAGGTGTAATATCGTTTTTGTAAACTGAATAGAATTGTATAGCGATGA

[illegible]

WI-7424	131 T A	CAAGAGAGAG AGAGGAAAGA	TGCAAAAGAAA GAATGAAAAGTT G	CCAGGAGCACTAGAGAGGGGGAAGAGCAGAAAGTTAGAGAAAAAAGCCACCGGAGGAAAGG AAAAAACATCGGCCAACCTAGAAACGTTTTTCATTCGTCATTCGAAGAGAGAGAGGAAAGAAAAA TT/AJACAACTTTCATTCCTTTTCGCAGGTTACATAAACATCTACATA
X86400	118 A C	---	---	TCCTGCAAGAAAGTCTCAAGCCTTTTGATTTTGTGCAATAAGTACAGCTTTGCATAAGAGTGAAA TTGGCTAGCTTAAATGGATCCATAAACTTTCTCTAATTTAAGTGAGA/CJCTCTTTTAAACACCT GTTAAATTTAATGTAGCAGTCTGAGAATCTAAAAATTATGTACCACCTCGTTTATTTGTTTCATTCATCCA TCCCTTTTCCCATGAATATTCA
WI-8053	242 T A	---	---	GTGGCCACTACATGTTATAGAAACCATCATCTTGTACACAGCACAGTCTATGAATAAAAGGCTGAG TTATCACTAAGCAGGAGAAAAAGCATTAAAAAGTGTCCCATTTAAAGGGACITTTTATCAACCTAA TAACTCTAATTCGTGCTGACTTTTAAAGATCTAAGGTCAITTTAATACATGCTGAAAAAGGTCACA ATTAATCTTTGATCTTTTACTCACTGTAACTTATATAAT/AJTTCAGAAC
WI-6190	165 G A	---	---	TACACAATGAATTCGTTTTATTTGGTATGCATCCACATTTACGCAITTTAGTGGTCTGAACAGCAAG TGGAAAGACGCAGCAATTTGCCAGGAGGTCAAGCCCAATTTCCGGGATCTGCTGTGCACACCCGG GTTCTTCTTAATCCCTGCTGAGGATCTTG/AJGAAGCAGCAGCAGCACCACCAAGGATGCA CCGGATTCAAGGTTCTTTTGTCCAGTTGTCAAGTTCCAAACTAGACCCCA
WI-6275	148 G C	---	---	AACAGTCACCACCAACCATGACAACTCGCCAGGCAAGGCTTGTCTCCCTCCCTCTTTCGGTCCC ATGTCCTAGTCAGCAAGTTCGGGGAGGCACCGATGTAGCTTCGCCCAAGGGAGTATTACAGAGA GAGGCTTGGGAA/G/CJGGAAAGAAACCTGGACAGGCTTTTCAGCACTGAGAAATCACTTAAACTG ATTTGCTTTCAGTAACCTGGTATGTCTGAA
WI-6421	41 G T	---	---	ACCAAGAGATCAGCTGTCTAACACAGCAGCTTTTGTATTG/TJGGGCTTCTGAAAGAAACCTTGC TGACAGCTTCTCACTGACCTGCAGGACGGAACCGTACCTGAGAGGGGATGGGGCTCTCTCACAAAA GAATATTTGGGGCAGAACCTTGAACTGGCCACAGGACATCCCAATATCCCCCTCCTCCTCAGGG CTCACCCCGACATCCTCAGCCAAATGAAGGCTCTGAA
WI-6905	215 T A	---	---	GGGTGAGACGGGTTTATTGTGCACATTTACACAGCTCACAGCTGTGGCTGGCAGCGGCCATGCTC CTGTGGTCGGGCTGCTACAAGGGCGTTCACTTTCTTCCACCACTATGTACAGTCAGTGTCTCCAA GGTGATGGGCTACAGTGTGCTGATGAGTGTGTACACACATTTTACATAAATTACACAGCTC ATACATGAAAAA/T/AJAGAGCCTAAGGCGCTGTATTTTAAAGAAAAA
WI-9420	202 G A	---	---	AACTGTTTACAAAAATAGGCTTTGCAAACTTCATTACTGAATTGTAAAGTCAATGACTGTGTTTTT TAAAAATATGTACCAAGGAAATACAAATTGGATAATGATCAITTTTCATGCTCAGGAGAGAACAGCA AGAAATAAAGGATACGCACAAGGTGCAAGGTAAGGAAACCGGAACCCATTGTGTACACTGTCTTCACACAG G/AJGCACTTCTTCTCACCTTAAGTGCAGCTGTGCAAGATGCTCAGTGTG

WI-9448	184	G A ---	---	TGGGGCTGCTTTAGACTTCATTCTAGAGCAGACACCTAGTGAGAGGAATACCTGGGAGAGAGAC TGCCTTGCCCATGGTGGTTAAACCTACATGAGGGGACTGAAATCTCTTTGGATGCCAGTCCAGATCCC TTTTAAGAAAAATGGGCTTGTTCCAAAGGCTGAGAGCTGGCACCAC[G/A]CACTGGTTTCTAAA TCCTGGCTGGATTTTATCCAAGCGCATGTTCTTAACGTGCCCGTGAGCAG
WI-9470	204	G A ---	---	ATGTCAGAGAGACACAGACAAGGAGTTTTCCCTTTTAAATGCTAAACAAGTCCACTAATCCACA GATCTGAAAAAGTACAGCTCTCCAGGTGATAATCAGATCCAGGCTTTTCTTGTCAGTCCGCTTA TGAGATCACGAATATGATCTCCCTAAAGCCCCAGATTCCTACTAGAGCCGCTGGGGACACTGATGAC AA[G/A]GCAATCAACTCATCTCCTCAAGCTCACAGGGCTCACCTTCCCAAG
WI-1245b	201	G T ---	---	GATGATTTCTGAAGTCTCAGCAGCCCTGATTCTAAGCCTCATAAGGAAGAGTAGGTGTTAATGGCA TCCTAGGGCAATGGTAGGTGCTGATGCAGATCTGCTGTAGCCATGTGCTGGCATCACAGGGTGGT TTATTAATTTTCATTTATCATCTGGACAGCCCTTCTTATAACGTACATCCTTGCCTCTTCTGAGGC[G/ T]CTAAGATCCCCAAGGTGGCTCCTGTATCCAGAAA
WI-1245a	85	T C ---	---	GATGATTTCTGAAGTCTCAGCAGCCCTGATTCTAAGCCTCATAAGGAAGAGTAGGTGTTAATGGCA TCCTAGGGCAATGGTAGGTGCTGATGCAGATCTGCTGTAGCCATGTGCTGGCATCACAGGGGT GGTTTATTAATTTTCATTTATCATCTGGACAGCCCTTCTTATAACGTACATCCTTGCCTCTTCTGAGGC GCTAAGATCCCCAAGGTGGCTCCTGTATCCAGAAA
WI-1031	149	G A ---	---	TTAGTGATAAGGACAGGTCTAGAACAAAGCGTTCCCAACCTGGCACCATGACAGTTTGGACCAA TAACTCTTTGTTTCAGGGGACTGTCTACACATTGTGGGATGTTAGCAGCCTCCGTGGCTTCTACCCA CTAGATGCCAGCA[G/A]CACAAACACCCCTCCCCAACAAATCATGACAATGAAAATGTCTTTAGACATT GCCAAATATACCTTGTGGGACAAAATGGCCCCCTGATTGAGAACCACCTGGTT
WI-5385	110	G A ---	---	AATGAGTCATTGTGGAGTTAGAGGAGGTACTGAAAAATGGTGACTCCAAATGGTGGGATTGGAAGAGG GAAGTCTCGATAATTTTAACATATGGTTCTTGCCAGGAATCG[G/A]CAATGCTAATCTATTGCTTAA TTCCTTATCAACAGACTCTTTGAATCAATTTAGAGATACTCAGTGACCCCATGGCTAGAGTTCTTGAC CCCTGCTACGGGAACATTGAATGCA
WI-5403	199	T G ---	---	ACCAACCGTTGGCAAAGGCTCCCCAAGACTCACACCCCAACTTTGGTGCTTACCCCTATGCCGGGTG GGATTGAAGAAATAACCATATAATATAATGCTACAATTTTCCAGTAGTTACCAGGCACCAGCCTAT TGAAGAAATCATAAATGTAACCCCTACAATGATTGCTCTCTGGCTTGGTGGCCAGGCATAGAGTT[G ]GGCTACAAACCCATTTATCATTTGAACCCCTCAGAAGCATCCAGTTGGGGCT
WI-5801b	157	G A ---	---	TGGTATTTTTCCTTTTCTAAAATGTTATGATTAAATTAGTGCTTTGTAGAAATTTGAAAAAATGTAAA TCAGAGAACAGAAAGAAAATAAGTATAGTTGAAACCTCTAACAAATTTAGATTTTAAAGGCCTAG GGAAAGAAAAGAGAGCCTGGGA[G/A]AGGGAATGAGAAAAGCACACCAGAAAAAAGTGTGT GGCTTAAGGGAAGCCCAAGGAAGTTAAGT

WI-5801a	48 A G ---	---	TGGTATTTTCCCTTCTAAATGTTATGATTAAATAGTGTCTTTGT[A/G]GAATTTGAAAAATGT AAATCAGAGAACAGAAAGAAAAATAAGTATAGTTGAAACCTCTAACAAATTTAGATTTTAAAGGCC TAGGGAAGAAAGAGAGCCTGGGAAGAGGGAATGAGAAAGCACAACCAAGAAAAAAGTGTGT GGCTTAAGGGAAGCAAGGAAGTTAAGT
WI-5896	61 C A ---	---	TTCTATTTAAATCCTGTGCCCCATTGCAAGACTGCATTAGTCTGCATGAGCCTTAGTTTC[C/A]TAA AAGCCCCCTCACACCGAGGACAATGTTCAGAACTAAATGACTGCAGGTGAGCAATTCCTGTATTAA TACAACTGGGACCAAGATGACTTTATAATAGTGGCAAGAGACAATCAGGCAGACTGGGAGGACC TTATAATAGATTATAAGGCTGTGTGAGTTATTTTAACTT
WI-7461	153 C T ---	---	TATTACTAGGTTTCATAGAGCCCCGTTGTAATGATAAATAGCCAAATAGTTAAAGAGGCTGCAGGCC AATTCCTAACGCTCCTCCTCCTTCCCTTCGAACCCAGCCTCAGAGATGACACTTAGGCTGCACATTCCTG TGGCAGGGACTGTGTCTC/TGTCCCTGTTGGGTCCCGGAACCCAGTGTGGTGCCTGGCACAGAG GAGGCCCTGAGTAGCATGTGCTGCA
WI-9716	221 G A ---	---	AGAAGACAGGAGCACTGGGATCAAGGACTGATAAAGTCTGAGGCTTTAATGGTCCCTGTCTCTAAC GCTTTTGGTACTTCTCTTCTGAAGACCAACCCCTTCAAACCTCAGAACACAGGCAAGATGCAT ATTCTGATTTTCAGATGTACTTCTACATCTCGAAACTAGATGAGTAGGCTCTCTTCATCT CAATTGAAAATTTCTAGAA[G/A]AAACACCTAATTGGCTCACTTGGATCA
WI-9760	49 C T ---	---	TTTTCGTTAAGTCTTGTGAAGCCACACAGAGTGATCTACTCTCTTAC[C/T]AAGTGTACTTTGCA TATATTTATGGGATGATCTATCCCTACTTAAGATTTCTCTCTCAGGTTAAATATCCATTTCCCT TTGTTCAAGGAGTTTCTTATTTGGCCTTCTTTCTAAACCCCTAACCATCTGCTTATTTCTGCTTGACA CATGCTATTTAATCAAGGTGACATT
WI-9855	31 A C ---	---	GAAAACCTCGTTGGCTCAAAGGAAACTGTAG[A/C]AAATCTTTTTTTTTTATTTTGTITTTTAACTC AAAGAGTGGAGTTTGCAATGACCTTGTGATGGCACGCTGCTCTTTTGTGTTGGTGTAAATCCTCTAGT GGGCACCTTGCAAAAGCAATTTAGAGCAAGGTGGTGGCATGGAGTTGTGTGAGTTGCTGAAAAG TAGCAATGGAAGAAAGTTAATGGA
WI-10312	41 A G ---	---	AAGGCCAGTGGGAAAGCAGACAAACACTCCAAGAATAC[A/G]AGATATAAAACATCATCATCA GTAGAGATGGGATGACCTAGGAGGTGATGCTGATGAGGGCATGTCAGACCAAAAGACATTTGGGTCT TGAGGGTTGAATAGGAGTTTGTCTGTGAGTCTTGCCAGTCCCATAGTAGGTGTCCATAAATAAAC AGTGACTAAACTGAGGTAGAGTCACAGAAGAAATTTCA
WI-11152	179 C T ---	---	GATTCCTTTGCGACATGCAGAGCAGATACGGCAAGGCATCTTGGGCATTTTGGAGGAAACGAGCCCTA ATTCATAGAAACAGACTCTACAAAGGACCAGTTAAAGGTCTCGCAACAGGGGACTGGGTGGCCAAAG TCAGTCAAGGGATAAAGGGGACAAAGTGGGACAAAAGGCTTGTCA[C/T]CTGTCAGAAACATTGAA AACAGCCAGTACATGCCACTGATAGA



WI-1968	167 A G ---				TGGTGAGGAGCTGTAAAGGCTGAAAGAATAGTCTCTGCTCTGGTCTTTGTTGGAAATGGATGAGTGCCTTTACAAAAATTTTCTCTTGGCATGGGTGTTATGTTTAGAATCATGGAGTTGGAAGACTTAGATTCAATTTGGGGCTGTACAGTTTACTGGAAGTTGT[A/G]TGAACCTTGAGCAAGTGTCTCTTAATGTCTCTCA
WI-4701	198 G A ---				GCCTCAATGCCCTTCCCTGTAA GGGTTCAATTTAACAGCCTTCCACTGGGTCTCAGATTGCACGGAGATGTAAAAATAGGAAGAGATAGAAAAATGGTGCCCACTATTGACTTGATAACACCTTACAAAACACACATTAAACTCCTCCCCACTCTACCCGCCAAAGTCTACCTTTTGGTCTTTTATTCTGCTAATGACCATACTATTTCCTCAATTAGA[G/A]CCATGTCATTTTTCAGAAAAAGCAGTATA
WI-4823	164 C A ---				TTTATCTTTCCAAACCATGTGTGTTTTCTTCACATACATTTACGTAATTTAAATCATGTCTATTAAATTATGCACTTACTTGTGGCTACCGACATTTGCTTCCAATTTGTAATTCCTTAACAACAGCAAGCATAACTGATGTGCCATCTTTGTATTCTTAAAA[C/A]AAAGAAAAGTCTTTTGTGCATCTGCCCTCTCTGTCTTCTCTGTTTCACCTCTGTATTTCCTTATTCAGCATTCATGATTAA
WI-4860	72 A G ---				AAAAAACAACTTCATTTGACATTTCTAAGAAGATAAAGAAAAACAACGATCCACTGTGTGTTTGCTTTGATT[A/G]GAGATAAAACCTGATCTCTAAGAAAAATTAAACCAAGCAGTACACTAAAAATAGCCTTTGTGTGTGTTTTTCAGGAAAGAAAGCCCAATCCAACCTAAGTTGCTAAGAAAAATAATGTTTCATATCACTCTAACCTCCACATAGAGCATTAAATATAGCA
WI-9705	111 C A ---				TGAAAGGACCAGTTCGAATGCCTACCAAGGTAAAGTAAATCGGAGGGGCGAGGAAGTAGGAGTTGCTTCCGGATGTTGCATAAAATTCAGGTCTTTAAGGAGTTCGGCTGCC[C/A]AAAAATTGTTAACACTGATGCTGTCTACAAACGCACATAGAAATCGGTGGTAGATTGCGGTTCTCTAGTAAGTAGCTAATGTTTAGATA
TIGR-A004Z48	177 A G ---				TGATTGTTGAATTATTGTTGCTGTGTTCTTGGTG CAAAATAATCTCTGCTTAGAAGTTGCTCTAGGGCCATGGATTATGTAAGGTGGGCGAGGTGGACTGAAGATCTGTGGCAGGGCTCACAGAGACGGGGGTAGGGGAGAGATCGTGGTTCATGAGATCCCATCTTGGGCAATACGGTTATCCCGTGGTCTTCATACGCCACAGA[A/G]TCTCCAAATTTACAGGGGCTCCC
U17579	34 T G ---				GTGGGATGTGGAGCCAATGAAGACCAGGTAGATGATGCCACCTAGAGATG GGGATTCAATGTGTCTGCTCATCCAATAAGCACT[G/C]CATGACCTCAGCCCCATACTCTTCTTCCC TATGTTCCAGAGACAGAATAGACCTGGCCCCCTTCTTCTAGGGATCACAATATTGGAAGGATGAGGACTCCAAACAGCCAGCTCCCATGCCAAATAGAACGATGAGTCTGGGATCAATTTCTATGGGAGGCC
WI-7747b	88 T G ---				TGGGAGAGGGATCCTTCTAGTTGA GTGAGAGCGAGGCTAGCCCTACAGATGAACCTTTCTGGCCTGCTTTCGTTAACTGTGTATGTACATATATATATTTTAAATTTGAT[T/G]AAAGCTGATTACTGTCAATAAACAGCTTCATGCCTTTGTAAAGTTATTTCTGTTTGTGGTATCCTGCCAGTGTGTTTGTAAATAAGAGATTTTGAGCACTCTGA



WI-7747a	44 T C ---	---	GTGAGCGAGGCTGAGCCTACAGATGAACCTCTTCTGGCCCTGCT/CJTTCGTTAACTGIGTATGTAC ATATATATATTTTAAATTTGATTAAAGCTGATTACTGTCAATAAACAGCTTCATGCCTTTGTAAGTT ATTTCTTGTTGTTGTTGGGTATCCTGCCAGTGTGTTGTAAATAAGAGATTTGGAGCACTCTGA GTTTACCATTGTAAATAAGTATATAATTTTTTATGTTTGTTCGTA
WI-7189	197 T C ---	---	TCCAGAAATTTCCCTTCAGCTCATTTTGTCTCTCACAATTAAGGGAGTAGGTTAAGTGAAGGT CACATACCATTTCCCTTCAAACAATAATATTTTACAGAAGCAGGAGCAAAATATGGCCTTT CTTCTAAGAGATATAATGTTCACTAAATGTGTTATTTTATATTAAGCCTACAACATTTTTC/CJAG TTTGCAATAGAACAATACTGTTGTAATAATTTACCTAAAACCTTGGTTATT
WI-7850	57 G A ---	---	AGCCCCAGCTGGACTCATGGATGTGCACCCCTTTGTCCTGCTCTTCTGCCCTGGG/CJACTCATGTA TCTGGCGAGCTCTGGTACCCCTCTGTGGGTGCCATCTCTACCTCTGACACAGACTGCCTGCCCTTGAAGCT GAGAAGGCACAGGGCAAGGAGCCAAAGGACCACAGAGCCTCAGCCAGCCAGGATCCGTCCTCATTTT ATTGGTGATGATGAATGGGAATGAATCAGGGGGCTGTCTACTAGAGCC
WI-7907	69 G C ---	---	CTCTCTCTCATCCCATCACCCCTAAATAGGTCAGGTGAGGGAGGCTGGGAAGAGGTGGGAGGAGG G/CJAGAAAGTGAAGGAAGATAGGAAGGATATTACCTCTCTGTTATTTTTTAAAGAAACATTTGTTT GGTGGCAGCAATCTCCCTGTCCCTATCAGTGTAGAGGCCAATTTTATATCTATAAATATATTAAAA AGCAAGTCAAACTTGGATGTATCAAGGTAAAAATTATTGTCAAAGTTTAAAT
WI-7919	242 T C ---	---	GAAGGCAGCTGGATCACTCCCGCAGTCTTGGGAGCGCTTGTGTGGAACACGAGAGCTCCTCCT CAGGGGCTTGGCACTCACTCTCTATTCTGTATGATGATGTTTGGTTAAACACTGTCAAATAATAGAGAT GTCCAGATTTAGATTTTCTACCCCTAATCTGTTTAATAATTGTAACITTTATCCATTTTGAAAAGTGCA AGCCCATTCAGATAAGCTATAATCTGGTCTTTAAGGAA/CJACAACITTT
WI-7928	101 T G ---	---	CTCCCTTCTCTATGCTCTCAGCAGCACGTTGGGGCACACTTGTTCATCTCTGACCGTTTGTGGGCTA TTCCCTTGCAGTGCAGACATCGTCAAAATTCAT/CJACAAGAGGAAATTTTCATGCAGAAAGCTGTA TGCAGGATGCTCACTGATGTTTGGACTTTAAACTGAAATTCAACTCTTTATATAGGATTTTCTTTT CTATCTCCATCTCCTCATTAATAAATAACGTACATTTTCGAGGTAATGGTA
WI-7936	131 T A ---	---	TTTTGAGTCAAAGACTTAAAGGGCCCAATGAATTTATATACATCTGCATCTTGGTTATTTCTGAA GGTAGCATTTCTTGGAGTTAAATGCACATATAGACACATACACCCAAACACTTACACCAAACT/A] ACTGAATGAAGAAAGTATTTGGTAACCCAGGCCATTTTGGTGGGAATCCAAGATTGGTCTCCCATATG CAGAAATAGACAAAAGTATATTAACAAAGTTTCAGAGTATATTGTTGAA
WI-7944	99 T C ---	---	TACACGTTCCAGCCCGTTGCCCACTCATCTGCGCGCTTGGCTTTGGTTGGGGGCGCAGATTGGGTTGG AATGCTTTCCATCTCCAGGAGACTTTCATG/CJAGCCCCAAAGTACAGCCTGGACCACCCCTGGTGTG TGAGCTAGTAAGATTACCTGAGCTGCAGCTGAGCCTGAGCCCAATGGGACAGTTACACTTGACAGA CAAAGATGGTGGAGATTGGCATGCCATTGAACTAAGAGCTCTCAAGTCA

WI-7805	101 A G ---	---	TTTCTAGGCTGTACAGTCTGATGATTTTTTATAAATAATTTTACATCTCTGTGAATTTGGATCTT TTTACTTTGAGCATATATTTAGAAATATGTGTAGTAAAGGATCTCCACAATGTCTGCAGTGTG AAGGCAGGTTCAATGTGGAAATAGTTAACAGTCAGGAAGCTAACTGGTCAGTATTAATGTGTAGC CCTACCAAAAATAGCCAGTAGTATCTGAAAAATGAAAAATAAATGAAGTAT
WI-7416	137 G T ---	---	GGCCAGGAGATTAGCAACAAGGATTCATTCTGTTACTTACCTTGCCCTTTTATCTTTCCCTCTTGCCC CAGTCCCTTCTCTCCAGCTTCATGTGAAGCTCTGCACAGACAAGACACTCAGTGTCTCTGGCAGTGT [G/T]CTACTCTCAGGTGCAGCATACATAACCAGTAAGAGACTAAATCTGCAATATATAAAGAGCTC CTACAAATCAGTAACATGAAGAACACTCAAAAATTTGGCAATGTCAATCAG
WI-140	252 C T ---	---	ATTTGAAGATTGGAGGCTTTGCAGAGGAAAAATAGATTTCAATTGGATCCCCAAAATATAATGACA AGTTTTTAATAGGTGTGATCAAGGCTTCTAAAGTGAAATGCAAGTTGTACCAGTAAAGTTTATA TCTCCATTTCAGCCAGCTCATTTGCCAGAAAAATTCAGGTGAGTGGATTGGCCAGACTATCTGGCAAG GATGAAAAATTTAGTTTAAAAATGTGTCATTTGTCTGATTGGCATTCTCT[C/
WI-198	218 C T ---	---	GAGGTCTTTCAGCAACATGGAAGCCCTACTGCTTCAACCCCGAGTCCCGGATCAAGTGTGGCACC CATGATGGAAACTCTTGCCATGGTTTAGTACCCCTGGACCAAGTAGTCAATCCATCCTGACTTTTAAAA TTCTAACAGCCTTTGATGGGACAATCTCTGCTAAAGACTAACCACTTCCCTTATCTTATCTTCAGCTA CCTGCTTCCCTTTCT[C/T]GTTTAAACAAAGCATAGAAATATCTGAACAAC
WI-205c	146 T C ---	---	TTATGGTCCCAAGACAGATTTTAAAGAAAGAAAAATAAGCCTCATCTCTAACTATGACTTGGTCGG AAGCCAAGAACCTACTTCAACATTTGACCCATAACCTTCTCTTGAGATGATGGCTGACTTTTCAAT GCATGAGTTTG[C/C]CCAAAGGCTTGATGGGAAAAATCTCAACATTTGTTACCTAAGAAAGAGGATGT ATCTTACTTTGTTTAAAAAACTGCATATGCCCTTTATTTTGTAGTTCCC
WI-205b	146 T C ---	---	TTATGGTCCCAAGACAGATTTTAAAGAAAGAAAAATAAGCCTCATCTCTAACTATGACTTGGTCGG AAGCCAAGAACCTACTTCAACATTTGACCCATAACCTTCTCTTGAGATGATGGCTGACTTTTCAAT GCATGAGTTTG[C/C]CCAAAGGCTTGATGGGAAAAATCTCAACATTTGTTACCTAAGAAAGAGGATGT ATCTTACTTTGTTTAAAAAACTGCATATGCCCTTTATTTTGTAGTTCCC
WI-234	165 G C ---	---	GAAGACTGAGTTCCAGGAGTTGCAGCCGTTTCTCGGGCCATATGGCTAATAAGGAGCTTGAGCA GGGATTTCAACCTGTTTGCAACCCAAAGTNTTCCAAAGAGGTCTCAGACTACCTCCTCCATCCTCCCT CTCCCCACAACACACAAAAATACAGAGATT[G/C]AATTCAGGAGCCAGTTTCTAGGTGGGCTTTGAGC AATCATACACAGTAATCTCTTGGTGTCTTGTAGTTTCTCAATGGGAAATGG
WI-276b	25 A G ---	---	AGCTTTTGAATCCAAAAACCACAT[A/G]CTTGACTCTCTTATCCTCCTCTTGTGTAACATCTATCC CTGAGGCAGAAAAATACAGAACACCCCTGTGGCTGCCTGAACGGAGGAGGATGGGGCGGGGAGACAT CGGTCAATGTATCAAGCATCTCTGCTGCTGAAAGACCTCTCCTGAAAGACATGAGCTATTAGGAGC TCTGGCAAGGGCTTTGTCTTATCCTCCTTGCTATCCTGATGACTGGGCAA

WI-276	25 A ---	---	AGCTTTGAAATCCAAAACCAT[A/G]CTTGACTCTCTTATCCTCCTCTTGTGTAACATCTATCC CTGAGGCAGAAAATACAGAACCCCTGTGGCTGCCTGAACGGAGGAAGGATGGGGCGGGAGACAT CGGTCAATGTATCAAGCATCTCTGCTGCTGAAGACCTCTCCTGAAAGACATGAGCTATTAGGAGC TCTGGCAAGGGCTTTGCTTATCCTCCTTGCTATCCTGATGACTGGGCAAA
WI-427	59 GA ---	---	TTTTCCCAATCCACAGGTAAAACATAATAATGGATGTATAGAATTTAGAACTACTCC[G/A]GTTT TTTCCCTGGGAAAAATATCACAAAACATTTGGTCTGCAATCAGGTAAAAGACATAGTGTGCCA TTTGTATCAGACAGGTAGAGCCCTGACTCTGGCAGGATTAGTACCCTAGCTGTGAGACTTTATGT ATTCAATTTATTAGAGCCAGGGCTTGCTCTGTCAACCCAGCTTTCAGTGCAGT
WI-562c	106 T C ---	---	CTCTTCACTCCAACACTATATTGCTTACTTAATGGTTACAGATTAGCCCAAGAAAGGAGCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATATTTAAIT/CJAAATGGTCCTTTTATTAACAAAAA AAAGNTATCTAAAGAGAAAACCATATAATCTCTCAGGTAATTATGGCCACAGCCAAAACCCAGTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-562b	106 T C ---	---	CTCTTCACTCCAACACTATATTGCTTACTTAATGGTTACAGATTAGCCCAAGAAAGGAGCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATATTTAAIT/CJAAATGGTCCTTTTATTAACAAAAA AAAGNTATCTAAAGAGAAAACCATATAATCTCTCAGGTAATTATGGCCACAGCCAAAACCCAGTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-562	103 T C ---	---	CTCTTCACTCCAACACTATATTGCTTACTTAATGGTTACAGATTAGCCCAAGAAAGGAGCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATATTTAAIT/CJAAATGGTCCTTTTATTAACAAAAA AAAGNTATCTAAAGAGAAAACCATATAATCTCTCAGGTAATTATGGCCACAGCCAAAACCCAGTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-597c	141 A G ---	---	GTGTAATTTGGTGGCTTTGCAACTTTCCACAGTAACCTTTAGAAATNTNAAAGGTGGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAGATGCTATGTTGAAGAAGTATCCTTAGGATATTCT GATACATG[A/G]TAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAAATTATTAAC TTGATCTAATATTCTTCACAACTAATAACCTGAGAGAAATAAGTCTATTAAAT
WI-597b	141 A G ---	---	GTGTAATTTGGTGGCTTTGCAACTTTCCACAGTAACCTTTAGAAATNTNAAAGGTGGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAGATGCTATGTTGAAGAAGTATCCTTAGGATATTCT GATACATG[A/G]TAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAAATTATTAAC TTGATCTAATATTCTTCACAACTAATAACCTGAGAGAAATAAGTCTATTAAAT
WI-597	136 A G ---	---	GTGTAATTTGGTGGCTTTGCAACTTTCCACAGTAACCTTTAGAAATNTNAAAGGTGGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAGATGCTATGTTGAAGAAGTATCCTTAGGATATTCT GAT[A/G]CATGATAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAAATTATTAAC TTGATCTAATATTCTTCACAACTAATAACCTGAGAGAAATAAGTCTATTAAAT

WI-611	66 G C ---	---	TTCAAATTTACACCAATTGGGTATATTATAATTITNGCTCTATCCATAGTTCTAACCCCTCTTCTCTG/ CJACAGTGAGACACCTGCCCTTCTATTGTCCCTGACGTATTAAAGTATTCGATCAGTCACCCATCTGGA ACCAAGTTTCAATTTCTGCTGACCCCTCCCTCTCACCCTACTTGGGCTCTGACTTCCTTTCCCTGGGCT GAACCTTCTCTGTGGCTGTCCGGCTTCTCTCTGCTTGGGCTCCAATAC
WI-681b	156 A G ---	---	TGAAGCCCTCTCTATACCCCAAGTGTCTTTATCTTAAATGCTGTGGTGAAGTATCTACCCCTTA GGGATATTGTGAGAAATCAATAAGTTTCATACAGGGGAAGCACITTTGNCCTGGTATGTCATAAGCAA TCCATAATTGTTATAGCTATTJAGJTTATACTATGGCACCATTGGGACACAGATTATATATGTCAGA CACCACGNATGTCCTTTAAGATATGCAGCAAGCACAAATCTGTCAATGGTTT
WI-681	156 A G ---	---	TGAAGCCCTCTCTATACCCCAAGTGTCTTTATCTTAAATGCTGTGGTGAAGTATCTACCCCTTA GGGATATTGTGAGAAATCAATAAGTTTCATACAGGGGAAGCACITTTGNCCTGGTATGTCATAAGCAA TCCATAATTGTTATAGCTATTJAGJTTATACTATGGCACCATTGGGACACAGATTATATATGTCAGA CACCACGNATGTCCTTTAAGATATGCAGCAAGCACAAATCTGTCAATGGTTT
WI-867b	119 G A ---	---	AATCTTAACAGCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGGAGCCTAAGATCAGTG CAACCTCCAAAGGCTCCCGAGTATCTGGCACATCTTTCCCTTTTCATCTCC[G/A]TTGTGTGTTGGC CAAATAATATCTCCCCAGGACGTCTCTTTCTAATCCCTGAACCTGAGAAAATGTTATCTTATGC AGTGCTATGGTTGAATGTGTCCTCCCAAGCACACATTAGAAACTTA
WI-867	113 A G ---	---	AATCTTAACAGCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGGAGCCTAAGATCAGTG CAACCTCCAAAGGCTCCCGAGTATCTGGCACATCTTTCCCTTTTCAGJCTCCGTTGTGTGTTGGC CAAATAATATCTCCCCAGGACGTCTCTTTCTAATCCCTGAACCTGAGAAAATGTTATCTTATGC AGTGCTATGGTTGAATGTGTCCTCCCAAGCACACATTAGAAACTTA
WI-867	119 G A ---	---	AATCTTAACAGCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGGAGCCTAAGATCAGTG CAACCTCCAAAGGCTCCCGAGTATCTGGCACATCTTTCCCTTTTCATCTCC[G/A]TTGTGTGTTGGC CAAATAATATCTCCCCAGGACGTCTCTTTCTAATCCCTGAACCTGAGAAAATGTTATCTTATGC AGTGCTATGGTTGAATGTGTCCTCCCAAGCACACATTAGAAACTTA
WI-871b	123 C G ---	---	TCATCAGACCTGAGATTCAGCATGAAATCTACCAAAGGTACCAAAATGTAACTTGTCCAAAACGA ATCTCAGTTTCTGCATATGTAATGGGAATGATAAGAGCACCCACCTACCTCATG[C/G]AACTGTT GAGAGAAATAATGAGACATTGTAAGTAAAGTTTGTAATGCACCTGTTATGGCCTGAATTGTGTACCC TAAATTCATATGTTGAAGCCCTTAACACCCCAATATGNCTGTATTGTACATAA
WI-871	123 C G ---	---	TCATCAGACCTGAGATTCAGCATGAAATCTACCAAAGGTACCAAAATGTAACTTGTCCAAAACGA ATCTCAGTTTCTGCATATGTAATGGGAATGATAAGAGCACCCACCTACCTCATG[C/G]AACTGTT GAGAGAAATAATGAGACATTGTAAGTAAAGTTTGTAATGCACCTGTTATGGCCTGAATTGTGTACCC TAAATTCATATGTTGAAGCCCTTAACACCCCAATATGNCTGTATTGTACATAA

WI-884	198 T C ---	---	AGGTTCTGGACTTGATGCTGGGAACAATTGGGTGCTGGAGAAATTCCTATTTTGAGTNTTTCACAGAT CAGTAGAGCCAAATGGGAAAGGTATCCTAGTCCATCCCTTTATTAGGAACCTTCTGATCTATTGGGA ACTTCTCCTAATAGATCAGGAAATCCACCTCATTTAATCATGGACAACNNAAGGAATAJTCJG ATCCCGCATGCAACATTTATTCAGTGAACACATGATGAAATGAACATAAT
WI-921b	205 G A ---	---	CACITCCCAAGGGCTCTGGGGGANGAGCGGTGGGACGCTGCCGGGAAGCAGTTCGACACTGACTGA TGCTTTGCTGCAGGGGCTCTGCTCTGAAGCCGGACACTGCCAGGTGCACACAGGACAGTTTACTGG CAGTGATGCCCTCTCAGCGCTGGCCCCCAAGAAAGTCTTNGCCAGGAAAAAGCACGATCCATCTAC TCTJGAJGGGAGAGATCTGACAAATTTAATCAGGAGGAAGAAATCTTCCGAG
WI-921	205 G A ---	---	CACITCCCAAGGGCTCTGGGGGANGAGCGGTGGGACGCTGCCGGGAAGCAGTTCGACACTGACTGA TGCTTTGCTGCAGGGGCTCTGCTCTGAAGCCGGACACTGCCAGGTGCACACAGGACAGTTTACTGG CAGTGATGCCCTCTCAGCGCTGGCCCCCAAGAAAGTCTTNGCCAGGAAAAAGCACGATCCATCTAC TCTJGAJGGGAGAGATCTGACAAATTTAATCAGGAGGAAGAAATCTTCCGAG
WI-945c	90 G C ---	---	GGCTGGGATGAGAGGTTCTACTTGTGGTACTGGAGGTTTCTACTGGCTTGTCTAGAACTAGNAAGNA GAAAGAGACAGNAGTTGGCTAACJGJCATGGCAGTAGTGGGCCCCAAGGCTGAGTAATAAGAAA AAATCATTAGATAAATGTCTCATGACCAAAACAAAGTTCAACACANTAGGTGCAGCACANNNGGTT TTCTCTGGTCATAGAATCTCTTAAAGGGAATCATGACAGATTTCTTGGCTTTA
WI-945b	90 G C ---	---	GGCTGGGATGAGAGGTTCTACTTGTGGTACTGGAGGTTTCTACTGGCTTGTCTAGAACTAGNAAGNA GAAAGAGACAGNAGTTGGCTAACJGJCATGGCAGTAGTGGGCCCCAAGGCTGAGTAATAAGAAA AAATCATTAGATAAATGTCTCATGACCAAAACAAAGTTCAACACANTAGGTGCAGCACANNNGGTT TTCTCTGGTCATAGAATCTCTTAAAGGGAATCATGACAGATTTCTTGGCTTTA
WI-960b	167 C T ---	---	TTGCTTCAAAGAAGTTCTTGCTCAGGAAGTTATTCTTCAAGCAACCTAAATGTTTTTGAGTACAT ATCAAGCACAGGGTTCTGAGCAATGTCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTCTTACC CTGAGGAATTTATCAAAGATGTTAAGTTATCTCTCTAGAGGTATAAGTCATATAGGCATATTCT ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
WI-960a	155 G A ---	---	TTGCTTCAAAGAAGTTCTTGCTCAGGAAGTTATTCTTCAAGCAACCTAAATGTTTTTGAGTACAT ATCAAGCACAGGGTTCTGAGCAATGTCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTCTTACC CTGAGGAATTTATCAAAGATGJAJTTAAGTTATCTCTCTAGAGGTATAAGTCATATAGGCATATTCT ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
WI-1121	181 T C ---	---	TCCCACTGAGTATGGCTTTCAGTAGTTTTTATTATGATGTGCCTAGGTACATTTGTTTTATTGTTCTG CGAATTGTTGATTACTTTGGGAGAAATGCTCAACTATAATATGCTTCTGACCCCTTTCTGTGTTT CTTCTTAAAGATACAAAATAAATGTAACATTAGACCTCTCACTATJGJGCTGTTTTTACTCTCCTCTG ATTTTTTTTCCATTATTTTATTGCTCTGGCTTCATTTTGTAAATNG

WI-1147b	204 G A ---	---	---	TTGGCATTATTTGAAGATAACCCACACCTTGGTGCCAGGTTTTCACAGGTATTAGTGGTCAGTCA CATAGGCATATAGTACCTGTATGACTTCTATTCAGCCACCGCAACTTCTCCTCTCCCTGCTGGCTC CTGAGCCAAAACAGGCATTTACCATAAATCACCTTTGTTAGGATGAACCTTATCTGGCCAAACTGATA C[G]A[G]CATGACCCACAGCCTCAGGTATATAAAACACTCTCATCAGGCAGA
WI-1158b	147 C T ---	---	---	GCATTGAGAGGGTTCGTTTAAATGACATTCACCTGAGGCCCTGTCTATGTCAGGCCCTTGGTGTGAAGA CGCAATCATGAACAAAAATGAAAAATACAATGTGATGGTCTCCTGAGTGTCTGAATG[C/G]GCCAGGTGGC TAAGTCTGGGG[C/TT]CTGGGGTCAGGCTGCCCTGGGTACATCCTGGCTCCAAACTGCTTTGCTATG GCT
WI-1158a	124 C G ---	---	---	GCATTGAGAGGGTTCGTTTAAATGACATTCACCTGAGGCCCTGTCTATGTCAGGCCCTTGGTGTGAAGA CGCAATCATGAACAAAAATGAAAAATACAATGTGATGGTCTCCTGAGTGTCTGAATG[C/G]GCCAGGT GGCTAAGTGTCTGGGGCTCTGGGGTCAGGCTGCCCTGGGTACATCCTGGCTCCAAACTGCTTTGCTATG GCT
WI-1304	124 T C ---	---	---	AAGTTACAGAAAAAATACCAGAAAAAGTACCTCAAGANTCAGCTGAGATAGAAAAACATATGCCCA TCATCTTCAANGTNCACACAGACACTTATCCCTAGACAGCCATTCTTTTGAATGNT/CJGNCANT AAAAATGATTTGAAATTTGGGAATAAAGCCCTCCCTCTAATGATTTGACAGTGTAGACCTTGCCTAG GGC
WI-1305d	202 C T ---	---	---	TTCTCAATCCAACTCTGTGTGTTACTTTTATTTCTTCTTCCATTCTATGTTGGTAAATATAAAGATG ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAAAGATAAGGTTTCCCTCACA TCCACTGCTTTCANTAAATTNACTCCACTNATGCTNACAAAAATNACACTGTTTTAANTGNNATATG[C /T]AGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA
WI-1305c	46 C T ---	---	---	TTCTCAATCCAACTCTGTGTGTTACTTTTATTTCTTCTTCCATT[C/TT]ATGTTGGTAAATATAAAG ATGATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAAAGATAAGGTTTCCCTC ACATCCACTGCTTTCANTAAATTNACTCCACTNATGCTNACAAAAATNACACTGTTTTAANTGNNATA TGCAGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA
WI-1305b	153 T C ---	---	---	TTCTCAATCCAACTCTGTGTGTTACTTTTATTTCTTCTTCCATTCTATGTTGGTAAATATAAAGATG ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAAAGATAAGGTTTCCCTCACA TCCACTGCTTTCANTAAAT/CJTNACTCCACTNATGCTNACAAAAATNACACTGTTTTAANTGNNATA TGCAGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA
WI-1305	202 C T ---	---	---	TTCTCAATCCAACTCTGTGTGTTACTTTTATTTCTTCTTCCATTCTATGTTGGTAAATATAAAGATG ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAAAGATAAGGTTTCCCTCACA TCCACTGCTTTCANTAAATTNACTCCACTNATGCTNACAAAAATNACACTGTTTTAANTGNNATATG[C /T]AGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA

WI-1306b	248 A G ---	---	TTTCTGCATTGGAATAGTTGACTTCTATGAGNNNGCAATAATAATGGACAATCTTGTGNNNNNTNG GGCTGGGTGACTGTGCCTGGGTCATTTAGAAGCCATAGAGATGAAAGTAGCCTGCAATAAAAGAGGA AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGNGAGAAAGTGCCCTNNTTCTGATGGCTTTTCAGT CTGTGAGTACACTCCTTTGTGAAGGCCAGTTGAAATTTATCTTCCT[A/G]GC
WI-1306	240 A G ---	---	TTTCTGCATTGGAATAGTTGACTTCTATGAGNNNGCAATAATAATGGACAATCTTGTGNNNNNTNG GGCTGGGTGACTGTGCCTGGGTCATTTAGAAGCCATAGAGATGAAAGTAGCCTGCAATAAAAGAGGA AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGNGAGAAAGTGCCCTNNTTCTGATGGCTTTTCAGT CTGTGAGTACACTCCTTTGTGAAGGCCAGTTGAAATTT[A/G]TCTTCCTAGC
WI-1307b	118 T C ---	---	GACAAGGCTGGTACTAGTTTCCAAATCCAAATCTATGTACACTTTCCTCTCACTTCTCAAGTGGACA GATTTCTGCATTACTGCTGGGTTGGGGAGCAGTGGTAGGCAAT[C/G]TGAGATTGCTTT CCTACCTCTTAAATGTATCTTNTCTAATTATNATGCTAAACCGGTACTGTGATCTATCACTGGTT TCTTTTGGTGTGTTGTGCTGTTGTTTCTCTCTGTAAGNTGTTT
WI-1307	118 T C ---	---	GAGAGATGGCCAAAGACAAAAGCAGAGGGAGAGAGCAACCNCTGTGGTTTTATCGCAGCAAGCN ATGCTGTCTCCATACCCAGAAATGAGCATGTGCTCTCTCTATGTATAGATCAGATGACATGGAGAC ATTCAATAGGCAACTACAATGTCCTTTGCTCCTCT[C/T]CACCCTCAGAACTTCCCTGAGGGGCAGGC ATTATGATCCCACCTTACATCAGTGGGAATTTGGACTTGGTGAAGTTAGGTT
WI-1325b	169 T C ---	---	GAGAGATGGCCAAAGACAAAAGCAGAGGGAGAGAGCAACCNCTGTGGTTTTATCGCAGCAAGCN ATGCTGTCTCCATACCCAGAAATGAGCATGTGCTCTCTCTATGTATAGATCAGATGACATGGAGAC ATTCAATAGGCAACTACAATGTCCTTTGCTCCT[C/T]CACCCTCAGAACTTCCCTGAGGGGCAGGC ATTATGATCCCACCTTACATCAGTGGGAATTTGGACTTGGTGAAGTTAGGTT
WI-1325	165 C T ---	---	CTACGATAATTAGGTTGGCAGTGAGGGTATTAAAGCTGTGTAGTGCAAGAGTCTGTTATTTGTAAA ACACCAAGTGCGGTTTAAATGGAATGCGTATGTGTGAGTNCATATTACGACAGGCTGGGGANGACTC CAGCGACACTATGGAGCTGAGAGTCTGT[C/G]GAAGTTGGGTAGTACCAGGCTCCCCAAATGTAGT TCTTNGCTGAAAGTCTCTCCTTACTGAAGAGGCAATGGTTCATCTCTAAG
WI-1327b	162 T C ---	---	CTACGATAATTAGGTTGGCAGTGAGGGTATTAAAGCTGTGTAGTGCAAGAGTCTGTTATTTGTAAA ACACCAAGTGCGGTTTAAATGGAATGCGTATGTGTGAGTNCATATTACGACAGGCTGGGGANGACTC CAGCGACACTATGGAGCTGAGAGTCTGTGAAGTTGGGTAG[C/G]TACCAGGCTCCCCAAATGTAGT TCTTNGCTGAAAGTCTCTCCTTACTGAAGAGGCAATGGTTCATCTCTAAG
WI-1327	175 C G ---	---	

WI-1341b	136 G A ---	---	TATCAGCATGATTGTGGCTGTTGGACACAAAGTCAATTTGTACTTTTGNNGNNNTCCTTTCTNTTT ACCTGATCCACTATCTTCTCAAGATCANGTTCAAATTTGGCTTNCCTTTGTNAAATTATACCCAAAGC [G/A]GGATTGTGATGATCTGTTTATTTCCGTGCTTGGACACAGAGTCGCTCTGNGAGTNTG GTTTCAGGATTGTCTCTGTTTCCCCAGCCCACTTGCACCTAGCAAGTGT
WI-1349e	192 G C ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAA ATAATTTGAGAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATA
WI-1349d	264 C A ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAA ATTGAGAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATATGAT
WI-1349c	192 G C ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAA ATAATTTGAGAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATA
WI-1349b	264 C A ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAA ATTGAGAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATATGAT
WI-1349	264 C A ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAA ATTGAGAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATATGAT
WI-1403b	57 C T ---	---	TGGTATTGGAATGGGTTTCAGACTCCGGTCTGGCTCTGACCTTTGGTAAGTTG[C/T]TTCCGAAT GCCACTTTATAAAGTTAGAGGTATTACCTTGGAGGGGGGACGTAGAGTAAGCCATAAAATATACGT AAAGTTTACATCAACATAATTCTTGGCCTGCATCATGCAATTTGGCAATATGTCACATAGCTGTCTCA TAATCCCCAAAGTGCCAAAAGGGTTGTATCTGATTGT
WI-1403	58 T C ---	---	TGGTATTGGAATGGGTTTCAGACTCCGGTCTGGCTCTGACCTTTGGTAAGTTG[C/T]TTCCGA TGCCACTTTATAAAGTTAGAGGTATTACCTTGGAGGGGGGACGTAGAGTAAGCCATAAAATATACG TAAAGTTTACATCAACATAATTCTTGGCCTGCATCATGCAATTTGGCAATATGTCACATAGCTGTCTC ATAATCCCCAAAGTGCCAAAAGGGTTGTATCTGATTGT



WI-1417c	31 C T ---	---	CAGCCGGAAGAGATTCACGTGGAGAGATGTC/TTTGGCCAGGGCGGCAGATGTGAGCCACGGG GGTGACAGCATGCCCTGGCATTTGGAGGGCCCCAGAAAGGAATCCAGTGGCCCTCTCAATGACTTG GGGTCTCGACTTCGGAAGTTTAAGGGCTCGGCTTCAAAAAGCTGGTCCGGTTTGAGGCGGTTGC AGGCGAGGCCCTTAGTCCGTAATTAATGTTGCTTTGTAGAAAAGTCGC
WI-1417b	31 C T ---	---	CAGCCGGAAGAGATTCACGTGGAGAGATGTC/TTTGGCCAGGGCGGCAGATGTGAGCCACGGG GGTGACAGCATGCCCTGGCATTTGGAGGGCCCCAGAAAGGAATCCAGTGGCCCTCTCAATGACTTG GGGTCTCGACTTCGGAAGTTTAAGGGCTCGGCTTCAAAAAGCTGGTCCGGTTTGAGGCGGTTGC AGGCGAGGCCCTTAGTCCGTAATTAATGTTGCTTTGTAGAAAAGTCGC
WI-1729	172 A ---	---	CCATGAGCAACAGCATGTTTCTACTCTGTGATGTGTATGTTAGGGGCGCATGTATCTGTATTTCTT TTTTATTCTCTCCAAAAGAAATTTTCATTATGCAAAACATTATCAGGCAATGCAGCTCGTAATAAAGA TGTTGGAGAACTGAAAAAGAGAGCTTACATGCACCCCAATAGCAAACTCTCCACACATTTCCAGCA GATGATGTGTCCTCCGTGGTACCTTCTCTCCACCACATCACCTGTGTTTT
WI-1732b	122 T C ---	---	TGCCCTACTTCTTTGTTTCATTCGCCACCATTACATTTTGTAAATTGGAACCTCTAGGAGGTAGAAGGA TATGCTGATCAAAAAAGGGGACATATTCAAGGAGTNCCTGGTCAACCTTTT/CJATTCAGTCT CTGCCACATGCTAGTAACGTGAGTGATGGTGCATCAGTATAATCCTGAGCCTCCCAAGGTACAGC CTTCACTACTATTACATATATTGGCTAAGGTATTACATATATTGGCTAAG
WI-1732	114 C T ---	---	TGCCCTACTTCTTTGTTTCATTCGCCACCATTACATTTTGTAAATTGGAACCTCTAGGAGGTAGAAGGA TATGCTGATCAAAAAAGGGGACATATTCAAGGAGTNCCTGGTCAACCTTTT/CJATTCAGTCT CTGCCACATGCTAGTAACGTGAGTGATGGTGCATCAGTATAATCCTGAGCCTCCCAAGGTACAGC CTTCACTACTATTACATATATTGGCTAAGGTATTACATATATTGGCTAAG
WI-1750	97 A G ---	---	GCGAATTTAATGACTCCAAAGGTAGTAATTCCTTCCCCCAAAAAGGTTTAAAATCTGTGTGGA CATAATGTTTGAATTTGCAGTTCACCTTGG/JAGJTAAAGGTGCTGTTTTCTGGCAAAGAGTCAG TGGGAGTGTCGGGAAAAGGGCTAAAGTCTTTGTAGTCAGACAAACCGGCTTGCACTCCTGACTGAG CTACATTCACITTTATGATCTCCAGCAGGTTCTTCCA
WI-1780	31 A G ---	---	GGTACACAAAGAAATGCTTCTGGAAATCTAC/JAGTACGCCCTTAACATTTTGGCTGAGTATTAATC TGTACATGTGTAATGTGAACCAACATGAAGCTGGGCAAGAACAAATTCCTAGGAAAAGTACAATTAC TGGGAAACTGTAGAACAATAATTTCTCATAGTTACACATAGCTGGGAATCACTCATGTTCCCATCA ACTGGAGAGACCCTTGTGAGTACAGAGGACATTCAGAATAATCATAAAAAT
WI-1803c	77 A G ---	---	CCACTCAGTAATAATAGTGTGGAGATAAGTATATGGTAGGCACATAATAATTATTTTCAGGCAGAA CCATTATGAT/JAGTAGGTAGAGCATCACACTTGGGAGGACATATTTCTGGAGTNAGATATCTCTG GGTGTAAATTTCAAATATATCTACTAAAGCATGACTTCTAGAAAATTTACTTATTTACTCTTGTCTCAA GGAAATGGGAATACCTATAATACAGTCTTATTGAGGAAAATAACTGGAATCA

WI-1803b	77 A G ---	---	CCACTCAGTAATAAGTGTGGAGATAAGTATATGGTAGGCACATAATAATTATTTTCAGGCAGAA CCATTATGATGAGTAGAGGTAGAGCATCACACTTGGGAGGACATATCTGGAGTNAGATATCCTG GGTGCTAATTTCAAATATATCTACTAAAGCATGACTCTAGAAAAATTAATTAATCTCTTGCTCAAA GGAATGGGAATACCTATAATACAGTCTTATTGAGGAAAAAATCACTGGAATCA
WI-1837b	112 C T ---	---	TTTACTGGGATTTTCATAGCTGATCATAATTTACCAATTTGATAATTCACCTCTTTTCCAGGCTCA AGGCTGATAAGCAGTTATCCAGATAGAAATAGACCCGTTTATACGCTGCTGCCCCAGTTTATTTTT AAGGTTTTTTTTCAATTGCACCTGATGCCAAAACAAAACCTCAAAGACCTTGAGTGAATTTTGAGCT CGTGTAAACAACCTGGGAAGTCTGGGGAACGTTTAGCTTTCTGCTGGCT
WI-1837	112 C T ---	---	TTTACTGGGATTTTCATAGCTGATCATAATTTACCAATTTGATAATTCACCTCTTTTCCAGGCTCA AGGCTGATAAGCAGTTATCCAGATAGAAATAGACCCGTTTATACGCTGCTGCCCCAGTTTATTTTT AAGGTTTTTTTTCAATTGCACCTGATGCCAAAACAAAACCTCAAAGACCTTGAGTGAATTTTGAGCT CGTGTAAACAACCTGGGAAGTCTGGGGAACGTTTAGCTTTCTGCTGGCT
WI-1840b	79 G T ---	---	TCACCTAGGGAGGTCGCTAAAAATGTAGCTTCATTAAAGACACCTCAGACCTATTGGATCAGGATCTT TCAGGTAGCACTGGTGGAGAACTCTGAATATTCAGCACATACAAGTGTGACAACCACTTGTTTAGTAT ATTTTATCTCCAGAGTGTTTTGAATTTACTAAAAAGTTCTTAAAGAGCCATGAAGAAATTATAAGACT ATCGCA
WI-1840	79 G T ---	---	TCACCTAGGGAGGTCGCTAAAAATGTAGCTTCATTAAAGACACCTCAGACCTATTGGATCAGGATCTT TCAGGTAGCACTGGTGGAGAACTCTGAATATTCAGCACATACAAGTGTGACAACCACTTGTTTAGTAT ATTTTATCTCCAGAGTGTTTTGAATTTACTAAAAAGTTCTTAAAGAGCCATGAAGAAATTATAAGACT ATCGCA
WI-1879b	110 C T ---	---	GGGCTCACTTTCATCAGAGCACATATCAGTGATAGTCTGTTTCCTCTTTTCATAACTTACTCCCCCG CACTGTAGGNTTCTTTTGAGGTNAAGGACCTGCCNTTTTACGCTGTCGNAATAAACTCCCAAAA AAGTGGTTAGTCCACAGGGTTTTAATAGTCTTGTTGAATGAATTTCTGTGTGCGACCCCTGTGCTTCT CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTTACCCACT
WI-1879	110 C T ---	---	GGGCTCACTTTCATCAGAGCACATATCAGTGATAGTCTGTTTCCTCTTTTCATAACTTACTCCCCCG CACTGTAGGNTTCTTTTGAGGTNAAGGACCTGCCNTTTTACGCTGTCGNAATAAACTCCCAAAA AAGTGGTTAGTCCACAGGGTTTTAATAGTCTTGTTGAATGAATTTCTGTGTGCGACCCCTGTGCTTCT CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTTACCCACT
WI-1900b	119 C T ---	---	TGTTCTCTGGTCCAGGCCCGGCTAAGTCTTGCTGCATAATGGAATAATCAACTGGACAACCCCNCG CTNAGGTAGGNTACCTNGGCAATTAGCCCCATCTTACAGCTGCAAAAGAGGCTGCTCTGAGAGGT AAAGTGCCCTGCCCAACGCGCACAACTAGAGAGCAGCCAAACAGGTGTTTGAACCCAGCTCTGCCT GACTTCAGATCTGTGTGCTTAACCTGCCATGAGAAACCACATTTCTTTGCTCC

WI-1900	119	C T ---	---	TGTTCTGTGTCACGCCGCGGCTAAGTCTTGTCGCATAATGAATAATCAACTGGACAACCCCNNG CTNAGGTAGGNTACCTNGGCAATTAGCCCCATCTTACAGCTGCAAGAGGG[C/T]GCTCTGAGAGGT AAGTCCCTGCCCCAACCGGCACAACTAGAGAGCAGCAACAGGTGTTTGAACCCAGCTCTGCCT GACTTCAGATCTGTGTCTTAAGTCCCATGAGAAACCACTTTCTTTGCTCC
WI-1943c	165	C T ---	---	ATCCAGTTTACAGTGGGCACAGGATCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGGAGGTGGCACCTGTGACCTGGCTAANCATGCTACTTTTCAGAGTCAAGC AGCAAGCCAAATGGGTAGGGAAGAACCAAGCC[C/T]CTCTGAANCTGGTCCCACGTGGAGATAGTGAA TACAGGGCACCGNTGAGCATTCCAGATGACTCCAAAGCCCCGGCTGGAGTAT
WI-1943b	165	C T ---	---	ATCCAGTTTACAGTGGGCACAGGATCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGGAGGTGGCACCTGTGACCTGGCTAANCATGCTACTTTTCAGAGTCAAGC AGCAAGCCAAATGGGTAGGGAAGAACCAAGCC[C/T]CTCTGAANCTGGTCCCACGTGGAGATAGTGAA TACAGGGCACCGNTGAGCATTCCAGATGACTCCAAAGCCCCGGCTGGAGTAT
WI-1943	164	C T ---	---	ATCCAGTTTACAGTGGGCACAGGATCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGGAGGTGGCACCTGTGACCTGGCTAANCATGCTACTTTTCAGAGTCAAGC AGCAAGCCAAATGGGTAGGGAAGAACCAAGCC[C/T]CTCTGAANCTGGTCCCACGTGGAGATAGTGAA TACAGGGCACCGNTGAGCATTCCAGATGACTCCAAAGCCCCGGCTGGAGTAT
WI-1960c	270	A T ---	---	CCAGGTGAGGCTGAAAGAAGGAAGGAGGCAATTGCTGTTGGAGTGAGGGATTCTGGAGAAGCACCCCT GCAGAGCTTCATTCTGTTTCAAAGTGTGCCATGCANGGTCNTCTGGTGTGAGCTCATNGCTGAG TTATCACAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTGGCA GTTGCAATTAAATCCGTGGTGTCTGAAAACTTAAAAATGCACCTCCCAACTTT
WI-1960b	270	A T ---	---	CCAGGTGAGGCTGAAAGAAGGAAGGAGGCAATTGCTGTTGGAGTGAGGGATTCTGGAGAAGCACCCCT GCAGAGCTTCATTCTGTTTCAAAGTGTGCCATGCANGGTCNTCTGGTGTGAGCTCATNGCTGAG TTATCACAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTGGCA GTTGCAATTAAATCCGTGGTGTCTGAAAACTTAAAAATGCACCTCCCAACTTT
WI-1977	203	T C ---	---	CTGATGCCAAGTGACAGCTTAGAGTNAGGAATCCAGAGAAAGTNTTGGATCTGGTAAGTAGGATCA TTCCTGGGCATTCTTCATAGAGTNTTGTCTTAGTCTCGTAATAACTGTTGCCCTAGGAAGGTTGTT TTTCTACTGCGTCTGTGAAGCCCTTCCCACTGAGTGATACAGTACTTCCAGTTATGGAGATT[T /C/T]AACAAATCAACACTGGCTGAGGCTGTTGG
WI-2012	102	T C ---	---	AAATTCTAGAAGCCAGAGTACAGCTACCGATTATAAAGTTGAAGTAAATGCATTGTAGTTTCATGT TTTCTCTTAATTCTGCACAAAACCTAGCTAAAAAT[C/T]TTTAAATCAGTACCAGAGGCAATACCT GGGTTAATGTAAGCACTCAAAAAGTTATGTAGAGTAGCTGTCTCTGAGTCACCTTTTTTCTACTCTCATTT GGCTTACCCTGCTCCACTGGATC

WI-2013	127 C T ---	---	CTTTAGAGTGGTCAATTCGGTCCCTCTGGAAAGTATCGTGTAAAGAAAAATAGATGCAAGG TTGCTAAGTACACCTAACATTTAAACAGTCTCCAGCAGATAAATGCTGATACTGACACTC/TCTCA CCAGAAAAAGAGAAATACCCATCATGAGGAAGAGAAATGACTTTTGTTCAGTTATGCTCCCGGGTCC CCTTCACTGGAGGATATCTCAGCTTCTGAGCCCCCTGGTTACTGCAATCC
WI-2032c	166 G A ---	---	ACCAGACATCCCATCAGGAGTTAGTCCCTCTGGCAAGCCAGCCCTGCCCCTCTGATTTCCCAAAACC TCAATTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACC ACATACCCAACTGGTTTCTAGATGTACAC/GA/TGTGGGACCTCTGCTCAACCTCCGACTTTCAC AGATCAITGGTTAGGCTCACC/TCCGTGAATTGCTCTCTGTTTTCAAAGGG
WI-2032b	219 C G ---	---	ACCAGACATCCCATCAGGAGTTAGTCCCTCTGGCAAGCCAGCCCTGCCCCTCTGATTTCCCAAAACC TCAATTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACC ACATACCCAACTGGTTTCTAGATGTACACGTGTGGGACCTCTGCTCAACCTCCGACTTTCACAGA TCATTGGTTAGGCTCA/C/G/CTTCCCTGTAATTGCTCTCTGTTTTCAAAGGG
WI-2032	219 C G ---	---	ACCAGACATCCCATCAGGAGTTAGTCCCTCTGGCAAGCCAGCCCTGCCCCTCTGATTTCCCAAAACC TCAATTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACC ACATACCCAACTGGTTTCTAGATGTACACGTGTGGGACCTCTGCTCAACCTCCGACTTTCACAGA TCATTGGTTAGGCTCA/C/G/CTTCCCTGTAATTGCTCTCTGTTTTCAAAGGG
WI-2054b	188 C T ---	---	CGTTTTCTCTACATCTTGGGNACATAAAGANGAAAGAGNAGCTGTCTTTTGTGGTAGTTTGTCT CAGAGCTGCCCTAGAGCNAGGACAAGACAGGTGACCTTTCAAATACCTTACAGACTTAGGATTGGA TTTTCATGGTGGTTGGCACAGCCAGGCTCAACAGAACTAATACCTGCTTC/C/TJCTGCCTCCAC CAGCCCTATCTCTTAGGCTCAAGGAGAAATTTACTGGATGGGCTGTCTTT
WI-2054	183 T C ---	---	CGTTTTCTCTACATCTTGGGNACATAAAGANGAAAGAGNAGCTGTCTTTTGTGGTAGTTTGTCT CAGAGCTGCCCTAGAGCNAGGACAAGACAGGTGACCTTTCAAATACCTTACAGACTTAGGATTGGA TTTTCATGGTGGTTGGCACAGCCAGGCTCAACAGAACTAATACCTGCTTC/C/G/TTCCCTCTGCCTCCAC CAGCCCTATCTCTTAGGCTCAAGGAGAAATTTACTGGATGGGCTGTCTTT
WI-2573d	129 T C ---	---	TGGGATTAACCCCTGTTTCTCTCCCTCCAGTTCAGTGGCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAAAATAGCTCTTAAATGCACCTTGCCTTCAACAGGTGTTCCGTGCTT/CJTGA TATCATCTGATCTTCCCAACCAGGGCTTATTTATGCTTAGGTAGGGGTAGCAACACAGAGGCTGTGT GAAGTAAATGATTTGCTTGACAAGGTCATATGGCTGGGCTTGGACGAG
WI-2573c	165 A C ---	---	TGGGATTAACCCCTGTTTCTCTCCCTCCAGTTCAGTGGCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAAAATAGCTCTTAAATGCACCTTGCCTTCAACAGGTGTTCCGTGCTTTTGATAT CATCTGATCTTCCCAACCAGGGCTTATTTA/CJTGCCTAGGTAGGGGTAAAGCAACAGAGGCTGTG TGAAGTAAATGATTTGCTTGACAAGGTCATATGGCTGGGCTTGGACGAG

WI-2573d	129	T C ---	---	TGGGATTAAACCCCTGTTTCTCCAGTTCAGTGGCCTTAATGTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAGCTCTTAAATGCAGTTCGCCGTTTCAAGGTTTCCGTGCTTTCJGA TATCATCTGATCTCCCAACAGGGCTTATTTATGCTAGGTAGGGTAAGCAACAGAGGCTGTG GAAGTGAATGATTGCTTGACAAGGTCATATGGCTGGCTTGGACGAG
WI-2573c	165	A C ---	---	TGGGATTAAACCCCTGTTTCTCCAGTTCAGTGGCCTTAATGTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAGCTCTTAAATGCAGTTCGCCGTTTCAAGGTTTCCGTGCTTTCJGA CATCTGATCTCCCAACAGGGCTTATTTACJTGCTAGGTAGGGTAAGCAACAGAGGCTGTG TGAAGTGAATGATTGCTTGACAAGGTCATATGGCTGGCTTGGACGAG
WI-2573b	165	A C ---	---	TGGGATTAAACCCCTGTTTCTCCAGTTCAGTGGCCTTAATGTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAGCTCTTAAATGCAGTTCGCCGTTTCAAGGTTTCCGTGCTTTCJGA CATCTGATCTCCCAACAGGGCTTATTTACJTGCTAGGTAGGGTAAGCAACAGAGGCTGTG TGAAGTGAATGATTGCTTGACAAGGTCATATGGCTGGCTTGGACGAG
WI-2573a	129	T C ---	---	TGGGATTAAACCCCTGTTTCTCCAGTTCAGTGGCCTTAATGTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAGCTCTTAAATGCAGTTCGCCGTTTCAAGGTTTCCGTGCTTTCJGA TATCATCTGATCTCCCAACAGGGCTTATTTATGCTAGGTAGGGTAAGCAACAGAGGCTGTG GAAGTGAATGATTGCTTGACAAGGTCATATGGCTGGCTTGGACGAG
WI-2868b	60	A G ---	---	GACTTCATGCTCATGAACAAGCATTTGCTTAATTTACAGACATTAGAACAAGCTTTCJAGJCTC CCACTTCCCTCCCACTATCACCTCAACCTCTTCATCCACTTTAAGAGGTTTCTTAGGTCCTCTGCAT ATCATGGAAGCCAACTACTCTATTAACGCTTCCCAATGATGCAGCCCAAGTTCTGCATACAGTTGTA CAGAAATGCTATATTTATGGAACAGCTGAAAAATGAAATATCGATATAC
WI-2868	60	A G ---	---	GACTTCATGCTCATGAACAAGCATTTGCTTAATTTACAGACATTAGAACAAGCTTTCJAGJCTC CCACTTCCCTCCCACTATCACCTCAACCTCTTCATCCACTTTAAGAGGTTTCTTAGGTCCTCTGCAT ATCATGGAAGCCAACTACTCTATTAACGCTTCCCAATGATGCAGCCCAAGTTCTGCATACAGTTGTA CAGAAATGCTATATTTATGGAACAGCTGAAAAATGAAATATCGATATAC
WI-2870b	131	T C ---	---	CATGCTGTGTAACCTCTGTGCTGCTTGTGCTGGGGAATTAGAGCAAGGAATTGTATAATCCTAGGC TTCAAGGAGCTTCTCATCTCATTTGAGGAGACAAGATGAACATCAGGAAATGACTGGATAATGATTC AGAAATGAATAGAGCCCCATTTTAAATTTATATACAGCTTTATGTCCACTTCTGTTCTGCCATCAC TGGGCTTTTACAAAGGAGGCTTT
WI-2870	131	T C ---	---	CATGCTGTGTAACCTCTGTGCTGCTTGTGCTGGGGAATTAGAGCAAGGAATTGTATAATCCTAGGC TTCAAGGAGCTTCTCATCTCATTTGAGGAGACAAGATGAACATCAGGAAATGACTGGATAATGATTC AGAAATGAATAGAGCCCCATTTTAAATTTATATACAGCTTTATGTCCACTTCTGTTCTGCCATCAC TGGGCTTTTACAAAGGAGGCTTT

WI-2954c	49 T A ---	---	TTAGCACACATATCTGTTGGGACTTAACAGACAAAGGCATAAAAA[TTA]CAGCACCTGGGGCA CAGAGGGAGCTCTATGCATTNAAATTCCTCATACCTACCCCTCCTCTCATTCATCAATGAGTCCTTTGAGT CCTTGGAAAGACTCTATTCCTGGGCAACCCCTTGGTCTCTGGCCATCCATTCGACAAATAAGTCCA GAG
WI-2954b	41 A G ---	---	TTAGCACACATATCTGTTGGGACTTAACAGACAAAGGC[AG]TAAAAAATCAGCACCTGGGGCA CAGAGGGAGCTCTATGCATTNAAATTCCTCATACCTACCCCTCCTCTCATTCATGAGTCCTTTGAGT CCTTGGAAAGACTCTATTCCTGGGCAACCCCTTGGTCTCTGGCCATCCATTCGACAAATAAGTCCA GAG
WI-2954a	38 G T ---	---	TTAGCACACATATCTGTTGGGACTTAACAGACAA[GT]GCATAAAAAATCAGCACCTGGGGCA CAGAGGGAGCTCTATGCATTNAAATTCCTCATACCTACCCCTCCTCTCATTCATGAGTCCTTTGAGT CCTTGGAAAGACTCTATTCCTGGGCAACCCCTTGGTCTCTGGCCATCCATTCGACAAATAAGTCCA GAG
WI-2971b	62 T C ---	---	ATTACAAATCCTACCTAGCAACTGCTGACACTTCCAGTTAGACTCACCAGCATTTCTAAGA[TT/C]G CTGCCAGCACCAATAAGCTTCTTTCAAAACAATTTGTGAACCTCCTCTCTTAATAAACCTAAC ATTCTCTTTGTTCCCTGACATTCGAAAGGCCAGCTGTGTAGATGATGCCAGATTGCAATCCT AGTTCTTTAATGTTATTCTGAAGAAAACCTTTTACTTAGGGATTGTCT
WI-2971	62 T C ---	---	ATTACAAATCCTACCTAGCAACTGCTGACACTTCCAGTTAGACTCACCAGCATTTCTAAGA[TT/C]G CTGCCAGCACCAATAAGCTTCTTTCAAAACAATTTGTGAACCTCCTCTCTTAATAAACCTAAC ATTCTCTTTGTTCCCTGACATTCGAAAGGCCAGCTGTGTAGATGATGCCAGATTGCAATCCT AGTTCTTTAATGTTATTCTGAAGAAAACCTTTTACTTAGGGATTGTCT
WI-2995d	133 A T ---	---	TTCTGGGAAAGAAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTT[A /T]AAATCTTTCTTTCTGGTGTAAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGTT
WI-2995c	151 G C ---	---	TTCTGGGAAAGAAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTT[A AATCTTTCTTTCTGGTGTAAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGTT
WI-2995d	133 A T ---	---	TTCTGGGAAAGAAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTT[A /T]AAATCTTTCTTTCTGGTGTAAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGTT

WI-2995c	151 G C ---	---	---	TTCTGGGAAAGAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAGGCTGGANTTTTTTTNA AATCTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGTT
WI-2995d	133 A T ---	---	---	TTCTGGGAAAGAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAGGCTGGANTTTTTTTNA AATCTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGTT
WI-2995c	151 G C ---	---	---	TTCTGGGAAAGAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAGGCTGGANTTTTTTTNA AATCTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGTT
WI-2995b	151 G C ---	---	---	TTCTGGGAAAGAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAGGCTGGANTTTTTTTNA AATCTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGTT
WI-2995a	133 A T ---	---	---	TTCTGGGAAAGAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAGGCTGGANTTTTTTTNA AATCTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGTT
WI-3147	85 C T ---	---	---	GTGGTGCAGTTTCATCTCTGGAGCTCCCTGTGAGATCAGACTGGAGCCAGTCTCCAGCTTGAGACCCAC ATCTCACTTAGCTCCTT[C/T]CCTGCCATATCCTGTTTCCCTTACTCCTATCTCCTGAGACTTCTTCT GAATGAATTACATGCACTCAATCCCTGCCTCAGTCTCTGCTTNNAGGGAACITTGACCTAAGACAGAA ATCTTAGTACCAATACTTTGCAAGG
WI-3234b	68 T C ---	---	---	ATTCTGTAATGTTTTCAGTCTCCAGTAAATCTTTATTGAGGTCCATGTCATTACCTCTACTTA T/C]GACAAGCAAGAACAAACAGAGAAAGCCTCTGTTTGCAATCTGGCCTCTTATAAATCTTCTG TATATTTTAAACAAGTACTGTAGAGTNATGAATCATACATCCTTAAATAGCATATCAAAAATTTTAC TCAGTAATTGAGAAAGGACAAATGGAATGTACTTATTTTNNATATCTTAT
WI-3234	68 T C ---	---	---	ATTCTGTAATGTTTTCAGTCTCCAGTAAATCTTTATTGAGGTCCATGTCATTACCTCTACTTA T/C]GACAAGCAAGAACAAACAGAGAAAGCCTCTGTTTGCAATCTGGCCTCTTATAAATCTTCTG TATATTTTAAACAAGTACTGTAGAGTNATGAATCATACATCCTTAAATAGCATATCAAAAATTTTAC TCAGTAATTGAGAAAGGACAAATGGAATGTACTTATTTTNNATATCTTAT

WI-3292b	106	GA ---	---	<p>GTTTTGCTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANTTAGCTCTGCACTCATCC TCCCTGTCCCGTCCCAAGCCTATGTTACTGGTATGCT[G/A]JGGGATTGGATTGGGATGGATTACTT GCCATGAATATTTTCCATTGTTTCTCATTAATGATTAATTAATTAAGTAAATATTTATTNCCATGA GACACAATGGAAAAATGGAAACATTTCATGGAAAAAACCCATTTCAATC</p>
WI-3292	106	GA ---	---	<p>GTTTTGCTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANTTAGCTCTGCACTCATCC TCCCTGTCCCGTCCCAAGCCTATGTTACTGGTATGCT[G/A]JGGGATTGGATTGGGATGGATTACTT GCCATGAATATTTTCCATTGTTTCTCATTAATGATTAATTAATTAAGTAAATATTTATTNCCATGA GACACAATGGAAAAATGGAAACATTTCATGGAAAAAACCCATTTCAATC</p>
WI-3355	19	GC ---	---	<p>CCATGAACCATGGGCTACA[G/C]ATATTCCTAAACTTCAGAGTCCCTCCTTACTGGAGAGGGATCCA CTTTTAAAATATGATTTCTTGAAGTGGCTGCATCTATTCCTCAAGCACCTTAAACCTCATCAGAA AAAAAATCATCAAAAAAGTCGAAGTTAGTTTNNATACCTTCACCTTTTCAATGGAAAACTTTATAA ACTGTGGATCAATTTATATTACTTTTGGATCAGTTTAGATGACTTTNAGTTG</p>
WI-3408	194	GA ---	---	<p>CCATGAAGAATGAGTTCCCTCCCTCCCTGGGTCACGCTAAGAAATAGCACACCCCTTGAGAAATTNACT TAGCACGTGGCATTGTAATGGCTGGATTCTCCCGCTCTAAGACACACCTTTATGCTTTTCNAAGCTTT CTGGAATTGGGATGAATCTNACATCAATGTGCACCCCTTCGTGTGGGATCACTTCTCC[G/A]JTGCCCC ATCTCTGNGAAGCCACTGGGAAGTCGAAGAGTGACTTCAAAATCAGG</p>
WI-3505b	131	GA ---	---	<p>TAACTTATGCCTCATCTGGCTTACTGCTTAGTCCCATTTGTCATCAGTGCACCTTAAAAATATTTT GAAAAATTGCCATTTTAAATATCTTTGGAACCTCTTAACACATTACCTATTTTNAACCAAAC[G/A] AGGTGATTCCTTATGGGAAAATATATACAGCAAGAAAAAANANGGAAAAAATGTTGATGATACCT GTTTAAATTGGGAAAATATGTTTGCATAT</p>
WI-3505	131	GA ---	---	<p>TAACTTATGCCTCATCTGGCTTACTGCTTAGTCCCATTTGTCATCAGTGCACCTTAAAAATATTTT GAAAAATTGCCATTTTAAATATCTTTGGAACCTCTTAACACATTACCTATTTTNAACCAAAC[G/A] AGGTGATTCCTTATGGGAAAATATATACAGCAAGAAAAAANANGGAAAAAATGTTGATGATACCT GTTTAAATTGGGAAAATATGTTTGCATAT</p>
WI-3564b	177	CT ---	---	<p>GCTAGTAAGGTTCCACCTAAATGGTTCCAAAGTCAGGAGTCACTAAATGTTTTGAGAAATAAAAGT GAAATCAATGTGCTTCCAGTGTATTCACATGGCAGAGTGTACAGAGGCTTGAGCGTCTGAGCG TGGGACTTCACTGGTTGACTAACGTTAACATGCATGCTGTTC/TJAAACAAGTGTGTGGTGTGTCATC AGTGTACACATGCTACCTTCCCTTCACAAAAACAA</p>
WI-3564	177	CT ---	---	<p>GCTAGTAAGGTTCCACCTAAATGGTTCCAAAGTCAGGAGTCACTAAATGTTTTGAGAAATAAAAGT GAAATCAATGTGCTTCCAGTGTATTCACATGGCAGAGTGTACAGAGGCTTGAGCGTCTGAGCG TGGGACTTCACTGGTTGACTAACGTTAACATGCATGCTGTTC/TJAAACAAGTGTGTGGTGTGTCATC AGTGTACACATGCTACCTTCCCTTCACAAAAACAA</p>



WI-3649	64 A G ---	---	AATGTCCATGCTGTGACTGACCTGTCTAACACCTTTCCTAGTATTCCTTTAGTGAAGATTCCAC[A/G] AGACCAGTTTGCCTTCACTTAGTAGGGCCAATGATAGACTTTTAGTGCTACCAAGGTTACCTGC ACAGCCACATCATATGTCACAGTATGGTTGCAAAGGACCTGTCTAGACTCTTTCTGCCTTGCTTGGTC TTCTGTTTTACCATATTATGATGACATGCAAAACCTCAGAGCCTTTTA
WI-3674b	133 G C ---	---	ACAGTACACATGGCCCCATTATGGAACAATCATCTGACTTATGTTACCTGAGAAGTCCCTCTCTAA ATTTAACTACCAGGGGAGTGCTTTTATAGTAATTAATATGTTTATTTAGAAAAAACAATAATG /CJAAGAAAAAATGATAGTCAAGTTGTAGACACTATTTAAAAATTGTAACCTGGTCAAAATGATTGTT AATCTTAATTAATTGTTTTATGTTTTNATTACTGCCAATCACAGCCAAAG
WI-3674	133 G C ---	---	ACAGTACACATGGCCCCATTATGGAACAATCATCTGACTTATGTTACCTGAGAAGTCCCTCTCTAA ATTTAACTACCAGGGGAGTGCTTTTATAGTAATTAATATGTTTATTTAGAAAAAACAATAATG /CJAAGAAAAAATGATAGTCAAGTTGTAGACACTATTTAAAAATTGTAACCTGGTCAAAATGATTGTT AATCTTAATTAATTGTTTTATGTTTTNATTACTGCCAATCACAGCCAAAG
WI-3682	137 G A ---	---	CAATATAGACCAAATGACTGCCACAAGAGAAAATTAGTGGATCTACATTTAGAAACCACATGTTTT ATTGGCTCTCTCTTCTCTCTCTCTTTTAAATGCTCTCTCCAAACCAATTCACCTTATCTTTTCAA T[G/A]AGCATTTGTCCAAATTTAAAGTCAATGAAAAATAATGTACATTTTTTCAACAAGTATACATTAA GCCCTGCAAAAGTCTTATATGCTAT
WI-3854b	194 G A ---	---	GGTATGTTGAGGTCAGCTAATGGTCACTGTGGTTGGAGTGAATCTAAATGGATTTTTTGCCCTTGG CAAAAGACCAAGGACAACGTGAGGACTTCTGCATGGTCTACCTCACTTAGGCTTCTTGATTAATAACTC TGTTTCAGGAAGGCCAAGGGCAGTTATGACCACCTTACAACCTGAGGAAATCAAAGCAAC[G/A]AGAA GTTAAATGGCCTGTCCCACTCCACAGAAAATGGTTATAACAGAGTCAGAGCCA
WI-3854	194 G A ---	---	GGTATGTTGAGGTCAGCTAATGGTCACTGTGGTTGGAGTGAATCTAAATGGATTTTTTGCCCTTGG CAAAAGACCAAGGACAACGTGAGGACTTCTGCATGGTCTACCTCACTTAGGCTTCTTGATTAATAACTC TGTTTCAGGAAGGCCAAGGGCAGTTATGACCACCTTACAACCTGAGGAAATCAAAGCAAC[G/A]AGAA GTTAAATGGCCTGTCCCACTCCACAGAAAATGGTTATAACAGAGTCAGAGCCA
WI-4039	210 G A ---	---	AGCCAGCCACATCATGTTGAGTCCCTGCTCATCTCCCATCTCTTATTTCTCTACTGCCTTCACCTT CCATTAAACAAGAACTCTTGATTACATGATGTTTGTGGTTACACTACAGAATCCAAGATGACCTC CCCATCTCAAGGTCAACTAAATTAACACCTTAATTCTATTTGCAATCTTTGTCAATTACCATAACATAIT CATGG[G/A]TTCTGGGATAAGGGGTAGACATTTTATGGGAGGCCAATTA
WI-4110b	130 T C ---	---	GAAAAATGATGTTTTGATTTCCCTTCCATCTTCAGATTATTGGAGTGTCAATTAGAAAACTGATAGT AACCTTTTATTTGATGAAACTCTGTCTATAATTAACCTTCCCTCTCTCTGCTTATTTTGCCT[G/A]CA GTTTAGTAAATAAAGATGCCCCAAGAAATTCAGTATTCAGGTACAGTAAAAAGTAGCAACCACTGGG GTAGGGACAAGTNCAGAAAAAGGGAGGAGGTTGGGGGTTTTCTTGGGAAGA

[illegible]

WI-4230	93 T ---			AGAGACGTTGAATGGGGACATCTTTCTATTCGATTTTAGTTTAAACATTTGATAAGAAATTGATGAAA GTTTGTCACATTCAGATTTATCTTTATAGCAGCAGAAGTCTGGCAATAATAACAGCACACTGACT TTTCCATGGTAAAAAGAAGTTAGAGAAAAACAGCCTATTTCTTAAATGTTAAATGTAATCTGAAT ACATTTTAAATGGAGGAGAATGAATAGTGACCTTTTGAAATTTTGAAATTTATGG
WI-4241	118 C T ---			GAAAAATCCATTGAAGTTTGACCTTGAACCTGATCTCATTAATACCTTTTNCITGAGTGGTTGATTT CATTTTGGACAACAGAACAGACGAAAAATTTCCACTTAAAAATTAATTTCTC/TJAAGTATCTATGAT TTAGCACTGTTAGCACCAAGAACTGTGAAATTAATCTCCTAGATATCTTCAGAACTCTAGGATGGAAAG AA
WI-4271b	151 A ---			CAGGGCTTTTGGGAAGATCAGTTAAAGCAGANCTGGACCTAAAAAGACTAAGCACATTTTCAGCAT CAACAAAAGGTGACATGTTACCCATGAAGTCCCTGGAGGATTAAGATCAATAAGAGCCTCAGG GGACTGAATCCAAACGGGGAATATTAGAGTNCCTACAGGGAGCCCCAACCCCTTCTGCTCAGG CTCTAGAAGGTCCAGTCAGGGGC
WI-4271	151 A ---			CAGGGCTTTTGGGAAGATCAGTTAAAGCAGANCTGGACCTAAAAAGACTAAGCACATTTTCAGCAT CAACAAAAGGTGACATGTTACCCATGAAGTCCCTGGAGGATTAAGATCAATAAGAGCCTCAGG GGACTGAATCCAAACGGGGAATATTAGAGTNCCTACAGGGAGCCCCAACCCCTTCTGCTCAGG CTCTAGAAGGTCCAGTCAGGGGC
WI-4389b	156 G A ---			AATCGAAACATTGATTTTTTTGTAAGGAACCCACATTTATGATATTTTGCCCGAGTTTAGCATAT GAAATTTGAAAGGGATGAACCTGGAGGAAGAGAGAAATAGAAAGGATATTATGATAACCTTTGGA AGGTAAGATGTGAACCTATACA[G/A]JNNGCAAGGAAAGTAGAAATGGAACAGACATGATTGACTTA AGAGGTATTGTAGGAACCTGGAAGCGGTAA
WI-4389	156 G A ---			AATCGAAACATTGATTTTTTTGTAAGGAACCCACATTTATGATATTTTGCCCGAGTTTAGCATAT GAAATTTGAAAGGGATGAACCTGGAGGAAGAGAGAAATAGAAAGGATATTATGATAACCTTTGGA AGGTAAGATGTGAACCTATACA[G/A]JNNGCAAGGAAAGTAGAAATGGAACAGACATGATTGACTTA AGAGGTATTGTAGGAACCTGGAAGCGGTAA
WI-4488	31 A G ---			GATGACAAATATTGTGATTGGCATTTTAA[A/G]GTACCATTCATTTCTCTGGCTTTCGTGTGTT TGTTGTTGAGAAAGTCAGGGTTAGTCGATTGCTCTTTCTAGTCTCTCAGTAGGAAGACTGATC CTAAACAACCTAATTACCCATGCCAAAGTAGCTCCAAACTGATCTTTAAAGAACATAAATCAAAATTG TATTATCCTATGCTTAAATGCTCAG
WI-4491	145 G C ---			ACCATCAATGTATCACCTTCTAAAAATTTATAGATGATTAACTGGCTGTTAAAAAATAAAACCT GTCITGGACATTTGAAAAATAAACACATTACTATTGGTCATTTCTGCTACTTACAAGGTAAGTGCACATA AACAAGTTAAG[G/C]GTTTTTGGAGGGGAAAAATCATAAAAATGCATAAAATTTCTACCACTGTCA TTTCTTGTCCCATAAATAAAATTTTACATGCCT

WI-4584	144 A G ---	---	TTGGTTGGCATTTAGCCTCATAACAACATTTACAATCATAAATGTTACTCTTATTTTACAACAAG AAAAATGAGGCTTAACATCACACTTCTGCTAGTCGAGAGCCCAAGATTTGAACCCAGGAATCCATT CACCGGTAC[A/G]TGCTACCTGGTAAAAAATGTTTAAATTAATCTATGGCATTAGATTTCAAAGA GTCCTAATGTGGTTTGAATAATAGGTGCTTTAATTTGTTTATCAGTATGC
WI-4639	185 C T ---	---	TTTCTGCATTGAATGTGTATGTGCAGACTTCAGAGGAACCCAGGAATCTCATTTTATTCAGTACAATA TGGTGGCCAGGTGCTCAGGCCCTATTATCAGAGAGATCTCAGTTAAGTTTCCAAATCCACCATTAC TGACCATATGACTTGGGGAACATTATCTCACCTATCTGAGTCTGTATCCQ[Q/T]CATCTTTAAATTTGTA AATTTAAGGACACCTATCATAGTAATATTGTGAGGATAAAATGAAATAA
WI-5327	63 A ---	---	AAATGAATCCGCTTTAGAGCAAATACCAGTAAGGGCTGGTGCAGGATGGTGGCTGAGAGA[A/-] JGATTAATCTATAAAAGCATAATTAATTTTATAAATATGGAATAATTAAGTAAATGTGAAT TGAGTTTGAAGGTTGCATGAGAGTAGGGAGGAGGTAGTTTCTACTTATAGGGTTTATATAAGTNTGCT TCAATAGAATGGCTCTTTCCGGATGACAATGATGAACCTGTTCTAAGCAGACAG
WI-5390	87 C T ---	---	GCCTTTGAGAAATGAAAAGGGGAGCCTGGACCATTGCAGGGCTTCTCATCTCTGATTATTTTGTGTAT TTATTGTTCACTTATTTAT[Q/T]GCTGCTCTCCCTTCTGGTATGCTTGTGCATGAACAATGAATTC CCAGTGCCTGGCCGATTCTGGCTCCTAGAGGTGCCAGAAAAAAGTTTCGGTGAATAGAAATTG ACGAATGGTTCAGAATTGAAACCTGTGAATCTATGGAAGACAAACGAAT
WI-5404b	87 G A ---	---	CCTTGCCTGCTTTATGCATAATGAGAAATAGAGTTGACTCTCCTGTCAGAAATCAATTTAAGCAGT GCAACATAATTTTAAATTT[G/A]AAGAAACTTGTCTGAACTTTGTACTCTTTGTAGTNAATTTG AATCTTCTCTCTCAGCAGTTCCATGGTGTGAATCCACCCCATCTCTTTCCACCAGTAGCAAGATT GCTACTTATATGGAAGGGTTTATAGAGTTCATAACAA
WI-5404	87 G A ---	---	CCTTGCCTGCTTTATGCATAATGAGAAATAGAGTTGACTCTCCTGTCAGAAATCAATTTAAGCAGT GCAACATAATTTTAAATTT[G/A]AAGAAACTTGTCTGAACTTTGTACTCTTTGTAGTNAATTTG AATCTTCTCTCTCAGCAGTTCCATGGTGTGAATCCACCCCATCTCTTTCCACCAGTAGCAAGATT GCTACTTATATGGAAGGGTTTATAGAGTTCATAACAA
WI-5545b	77 A C ---	---	TAGGAAAGGGGATGGTATGGCCTCTGAGACATTTAAATCTATCTTTCCACCCTCACACTGCCGCCA TATCTCCTC[A/C]CCAAACCTCTGTTTCTGACAGCCCAAGTTTCCATCAGTTGATATGGGACTATTT GTTGCAAAACAATTTTAAAGATTGGCTGACTTTGGCTGAATTTGCTACAACCTCCAAAAAGANTC GAGATACACCATGAATTTTATTTTCATTCA
WI-5545	77 A C ---	---	TAGGAAAGGGGATGGTATGGCCTCTGAGACATTTAAATCTATCTTTCCACCCTCACACTGCCGCCA TATCTCCTC[A/C]CCAAACCTCTGTTTCTGACAGCCCAAGTTTCCATCAGTTGATATGGGACTATTT GTTGCAAAACAATTTTAAAGATTGGCTGACTTTGGCTGAATTTGCTACAACCTCCAAAAAGANTC GAGATACACCATGAATTTTATTTTCATTCA

WI-5860b	134 A G ---	---	ACTCAAGTTTGGGGATAAAATCAGAAGTTTCTATGTACAACCTTAAATTTTCTAAGATTTTATTGT TTCTTTTATATAAAATTATGGATTGTTTTTACCTCCCTAACCAACCTTCTAACTGAGGAACCTAC[A/ G]TTTACTGGAATCATGTGAAGACATTCTAAAGGGTACCCAGGTGCACATAGTTTAAAGGGAATCA ATTTCCAAATCATCAACTTCTGTAT
WI-5860	134 A G ---	---	ACTCAAGTTTGGGGATAAAATCAGAAGTTTCTATGTACAACCTTAAATTTTCTAAGATTTTATTGT TTCTTTTATATAAAATTATGGATTGTTTTTACCTCCCTAACCAACCTTCTAACTGAGGAACCTAC[A/ G]TTTACTGGAATCATGTGAAGACATTCTAAAGGGTACCCAGGTGCACATAGTTTAAAGGGAATCA ATTTCCAAATCATCAACTTCTGTAT
WI-6106	208 C G ---	---	GCAACAACCTATTATACCTGATCCAACCCAGGTCTACTAACATTAAATCAACCCCTAACCAATAC TATATTGTCCTGTTCTGAATTTATTTAGAACTCTGATGAGATTTAGCATGGGATAAGTGCAG TGCAGAGATAGTAAACACTGCTCTTTTGGCTCCAGGAGTCTCAATGTGAAGTATAATCTTTACAGAG TAATTC[G]ATAGTAGGTACCCACAAAGTCTATATTGTATGTGAAGGAAG
WI-6109d	129 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGAAAAAACCTTC[C] AAACCTATAATTTNCTGTTGTCATACCTTTAAATGTATAATGTGGGAGAGAAGGAATTTTGATGT GNAATAATTATCCCTGAAAAATTTTATACCA
WI-6109c	147 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGAAAAAACCTAA ACCTATAATTTNCTGT[C]CTTGTCATACCTTTAAATGTATAATGTGGGAGAGAAGGAATTTTGATG TGNAATAATTATCCCTGAAAAATTTTATACCA
WI-6109b	147 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGAAAAAACCTAA ACCTATAATTTNCTGT[C]CTTGTCATACCTTTAAATGTATAATGTGGGAGAGAAGGAATTTTGATG TGNAATAATTATCCCTGAAAAATTTTATACCA
WI-6109a	129 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGAAAAAACCTTC[C] AAACCTATAATTTNCTGTCTTGTCATACCTTTAAATGTATAATGTGGGAGAGAAGGAATTTTGATGT GNAATAATTATCCCTGAAAAATTTTATACCA
WI-6112	96 T C ---	---	AATGCCCTATCACCTTCCATCATGCTGCATAACTGATTGATTCAATGCTTATTGTTAGCACCTGTC TTCCAAGACATGCTGTTTTGTTCAATGA[T/C]GCATATCCCAAGTGCCCTAGACAATGCCCTCCCATAC AGTGAACAGATTTTGAATAAACACATACTTGTTAAATCAATAAAATTAATCAACTTGGCATATGCAAG GAAC

WI-6244	103 C T ---	---	TAATTGCACAACCTACATATCAGGGTTCTGATTGAAAGGAGAGAATATTCCTTTCTTTAGTGATT GCTTAATATTAAATCATAATAAGTCACCATCTCTT[C]GCTCCTTATAAATGTGTTAGAAAGAGG AAATTGAGTGTGGGAATTAGCAACCAGGAGACATTTTATATACCTCTACAGTGGGGAAGACTT CCTATTTCTTTCCCAAGGATGGATACATTTCTAC
WI-6268	124 C T ---	---	CTGGCCTTATAATCCAAGTTAGGATTAACTTACCCCAACTTAATAGACTTCCAGACAGTTGCAGTT GTCTACAAGATTCTCTCTAGTAGGGCTTTGGGTGTGGCACCGTTTGGCTCATTC[C]TACTCTCCCT GGGTCTTATTGACTTTTCAGGGAGCCTAGAAGAGCTGGACAAAACCTGCTTCTTTGCAGAAAAGAGTCG GGGTCCAAAGATTTCGTACGATTTTATA
WI-6336b	234 C T ---	---	AGGTGCCATTTAATCCATTCAAATTTGGAAGCTACATCTCAAGGGTCTGAGAGAGCTCACTCCCCC ATATATTTCCCTTTTACATGTTTCTTATAAGACATACAGTTTAACTAACTAAACAGCTT ATATACTGGCAATATATACAGATGGTTTATGTCAGAGTAATAGATCAGATGAAATGGACCATGTG GTACCCAGTGCATTATGCTTGGTAGAGCC[C]TGTGAGGACACTGACAGT
WI-6336	234 C T ---	---	AGGTGCCATTTAATCCATTCAAATTTGGAAGCTACATCTCAAGGGTCTGAGAGAGCTCACTCCCCC ATATATTTCCCTTTTACATGTTTCTTATAAGACATACAGTTTAACTAACTAAACAGCTT ATATACTGGCAATATATACAGATGGTTTATGTCAGAGTAATAGATCAGATGAAATGGACCATGTG GTACCCAGTGCATTATGCTTGGTAGAGCC[C]TGTGAGGACACTGACAGT
WI-6381	92 C A ---	---	TTGGATACAAAAATTCAGTTACACAAATCAGTAGGATTCAAAATAGTTATGAGTATTTATACAATTA CAAAAAATGNTTCATGTTTTAACAA[C/A]GTAATTTAAAGCTCAACATTTTAAACAGGCACAAAT ATTCTAANGGCATATGCATTCACCATGGCTTTTGAATGTCTCACTCCCAACTTCACAATCAAAATC TACAGANGCGGCAAAAGATCAGAGTTTCAG
WI-6436	198 C G ---	---	GGTTGAGGCATTGGGAAAGGCAGAAATTGAGGCAGTAGAAAAATGGACATTTTAGGAAAAGAGAAGT TCAGAGGCAAAAGTCATGACAGACAGGAAATACAAGGCTTAGGAAGACAGTAGTCTCTGTGGTTGAA ATTTTGGTGTCAATAAAGAAGTTTAGACTTTGGTGGTTGTAGTAGTGTAGTAGAGGTAGCGTT[C/ G]ATTGGGTGTATCCACAGACAAGGTGATGTTCTAAGATTTGATATTTATTGT
WI-6449	186 C T ---	---	GAGGCCTCTTTGCTTTCTCAGTCAAGGCTGTATCCAGGGTTGATATCTAGCCTATATGCCATATGT GTATGGCTAGTGTGTTGTTCTGATTGGTGGTCTCACACTGCCAGATTGTTAAATATTTTGAAAATC GTATCTGGTTCTATTCTATCTGCATCTCTGATCTTATGCTGGCTCTATT[C]TATCCCTATTCTCTGA TCTTATGTCAGACCTGAAGTTCCCTCTAAATTTTCTGTGGTGATTTATA
WI-6449	186 C T ---	---	GAGGCCTCTTTGCTTTCTCAGTCAAGGCTGTATCCAGGGTTGATATCTAGCCTATATGCCATATGT GTATGGCTAGTGTGTTGTTCTGATTGGTGGTCTCACACTGCCAGATTGTTAAATATTTTGAAAATC GTATCTGGTTCTATTCTATCTGCATCTCTGATCTTATGCTGGCTCTATT[C]TATCCCTATTCTCTGA TCTTATGTCAGACCTGAAGTTCCCTCTAAATTTTCTGTGGTGATTTATA

WI-6463	72 T C ---	---	GCTGGAGAGAAAAGACCTCCAAAAGAAAGAACTAAATCAGAGTCTCTTGAGCAAGAGGAATTGAAA AGAACA[T/C]TGAAAAAAATTAAGTAGAACTCAAGAGCCAAAAGTCCCCAATTGTGTCCATT TAAGAAATATTTGAATGGAATCTTAAGAATGATTTTATTGATCAGTTAAATGTTCTTCTCTCTCCTC CAGTCCCATTTATATGACATTCGGCATGCTG
WI-6474b	76 C T ---	---	AAGCAGTAAATCTTCCATCATGCCATGGATGCCAGTGGGTAATGTTATAGAAACTTCAGAGGANAC AGAGGCAAA[C/T]GTTGGTTATAGCAGTCAACGACATCATCAATGAAGACATGACTTGCTTAGAGCC AAGAAAAAGTAGGATTTGAAAGGCACAGAGAAAAGGGGTGTTACTAGAGGAGAACTATGTAAGCAG AGGTATAGAGGAACTAAAGTATAAAGAGTGAGCCATAACTTAGGGTACCATAA
WI-6474	76 C T ---	---	AAGCAGTAAATCTTCCATCATGCCATGGATGCCAGTGGGTAATGTTATAGAAACTTCAGAGGANAC AGAGGCAAA[C/T]GTTGGTTATAGCAGTCAACGACATCATCAATGAAGACATGACTTGCTTAGAGCC AAGAAAAAGTAGGATTTGAAAGGCACAGAGAAAAGGGGTGTTACTAGAGGAGAACTATGTAAGCAG AGGTATAGAGGAACTAAAGTATAAAGAGTGAGCCATAACTTAGGGTACCATAA
WI-6478b	175 T A ---	---	GAACTCAATTAACTTGCAACACTGAGAAAATCGGATTTGGAGATCTGCAAGCTGAGGTTGAGATT TTGGACCTTGGTGATCCAAATGGGAATGCCAGCTCGAGGCCGTGCTATATGCTTATTTTGTGA CACTGCTATTTACCTCCCTCCCAATAGTGGAGAAATCAGAGT[A/G]CTCCTTGTCAGTGTGCTACAGA GAAGATATACAGGATGGAAAGGACAGCTCCTGTTAGGACCTAGACACAACCTG
WI-6478	175 T A ---	---	GAACTCAATTAACTTGCAACACTGAGAAAATCGGATTTGGAGATCTGCAAGCTGAGGTTGAGATT TTGGACCTTGGTGATCCAAATGGGAATGCCAGCTCGAGGCCGTGCTATATGCTTATTTTGTGA CACTGCTATTTACCTCCCTCCCAATAGTGGAGAAATCAGAGT[A/G]CTCCTTGTCAGTGTGCTACAGA GAAGATATACAGGATGGAAAGGACAGCTCCTGTTAGGACCTAGACACAACCTG
WI-6559	149 G A ---	---	CACATTTTGAATGCAACTGAGAAANTGGTTTTNTAGGCCTACCTTTTATTAAGAGTACATCTGGCTC CAATGTACCCCAACATGCAAAACATAAGGCAACAATCTGATCATTTTATAGNTCCCAAGCCCA TTAGCAATATCTTA[G/A]TCAAATTTTAAAAAGAGAACAGGAAATAAGGAAGGCCCTAACAGAGGAG TTAAATAATTGTGCAAAACTTATCAGTTCTTC
WI-6564b	54 G A ---	---	TTCTTTATTGGTCTACCAATGTGACTCTTTACCCAGGCCCACTGTCTCTATGC[G/A]CACTGGCTTTG TAGGCATTACATCATATGCTGTGCTGCTGAAATCTCAATTAATTTCTCCTNCCTATTCTCTTTCCAT GCTCTGCCTCATTTNCTCAGAAATGAAGGCATTGATTATNATTTTTTTTGGGTCTGTGTAAG GTTCTTGGCAGGAGAACATGCATATGACTTTTAAATAAAGACCAACA
WI-6564	54 G A ---	---	TTCTTTATTGGTCTACCAATGTGACTCTTTACCCAGGCCCACTGTCTCTATGC[G/A]CACTGGCTTTG TAGGCATTACATCATATGCTGTGCTGCTGAAATCTCAATTAATTTCTCCTNCCTATTCTCTTTCCAT GCTCTGCCTCATTTNCTCAGAAATGAAGGCATTGATTATNATTTTTTTTGGGTCTGTGTAAG GTTCTTGGCAGGAGAACATGCATATGACTTTTAAATAAAGACCAACA

WI-6608b	46 C	---	---	CTAATCACAGTAGCACTGAACATGGCTCTAGTGGTGGCCCTCAGT[C/- JAGTTCAGGCAGCTAAAGGAGGGGATTTCTCTAGTCTCCCTAGAGCTAAATATGCATCTGG GAAAAATTAGGCTCTGGAGCACAGAGGATTTTCTAGAGGAAAAAGAACTGAACCTCCAGCACTAG GTAAACTGCAAAAAAGAAAAACACCTGTGCCCAGGCACACTAGTACAAGGCCACACCAGAAAAAGGAA AGC
WI-6608	46 C	---	---	CTAATCACAGTAGCACTGAACATGGCTCTAGTGGTGGCCCTCAGT[C/- JAGTTCAGGCAGCTAAAGGAGGGGATTTCTCTAGTCTCCCTAGAGCTAAATATGCATCTGG GAAAAATTAGGCTCTGGAGCACAGAGGATTTTCTAGAGGAAAAAGAACTGAACCTCCAGCACTAG GTAAACTGCAAAAAAGAAAAACACCTGTGCCCAGGCACACTAGTACAAGGCCACACCAGAAAAAGGAA AGC
WI-6666	68 C	---	---	GTAGACAGTATCCAGCAAAAAAGGTTATTTATACCTCTACTTTTCCAAAAACGAGGAAACCTCCCC A[C/A]AAATCCCATCAACACACAGTCATGCTGGAAGGCATCTGCTTACTCTGTTGGTTTCATGTAA ATGTTGGGGTGACTCATTCGCTCTCTCTCTCAAGTTCAGGCTCTTGGGTAGACCAAACTA ATACACAATGTTAGGCACACACAGAGA
WI-6670b	120 A	G	---	AGATTAAACATAATTACTGGGGCCATTGAGGTTNGGAGGAGTGTCTTCTATCTGCAGCCAAA CAGAAATACCTGTAGTACAGCAAAACCGTCTCAACAGTAAGCACACAATGAAC[A/G]TTGTAGCCA GCATTGCCATTGAGGCGGAGTCAGGGTTTGTGGGCCAGAGTTAGACAATTTGGGGAATCTGA AAAAAAAGAAATACAGAAATTGTAACACAGACACAGAAATCTTGAAGGGAT
WI-6670	120 A	G	---	AGATTAAACATAATTACTGGGGCCATTGAGGTTNGGAGGAGTGTCTTCTATCTGCAGCCAAA CAGAAATACCTGTAGTACAGCAAAACCGTCTCAACAGTAAGCACACAATGAAC[A/G]TTGTAGCCA GCATTGCCATTGAGGCGGAGTCAGGGTTTGTGGGCCAGAGTTAGACAATTTGGGGAATCTGA AAAAAAAGAAATACAGAAATTGTAACACAGACACAGAAATCTTGAAGGGAT
WI-6704c	33 T	C	---	TTTGAAAAATAATTTCATGCACCAATGTTTTAACT[C/C]ACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGACACACGGNCA CTATTGCTCTTTAAATATGGTTGTACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
WI-6704b	33 T	C	---	TTTGAAAAATAATTTCATGCACCAATGTTTTAACT[C/C]ACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGACACACGGNCA CTATTGCTCTTTAAATATGGTTGTACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
WI-6704	28 T	C	---	TTTGAAAAATAATTTCATGCACCAATGTTTTAACT[C/C]AACTCACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGACACACGGNCA CTATTGCTCTTTAAATATGGTTGTACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG



WI-6710	106 G A ---	---	CCATGGACAGTTTAAATTAGGAAGCTCGACTTGTTAGAATAACAGAGGAAGTCCCAGTTATCTACCT ATTCTTTAAACACATTTTGTGAGGCTGGAATGATCCCG[AT]AGTAAACTCAACATCCACACCT GCATAACATCGCCTCCCAAGTGACTATTATTACTGAGTCGACACAGGATGTCACCAGTGAGCCTC ATCTCAGTCCAATGGAGGAGTTGACTTAGACCTTCTTGGACAGGAAGGGTC
WI-6766b	148 G C ---	---	AAACAAATGGTGCAATTGCATAATATTTGTGGTCACAGTATAAAACAATACAATTAGTTCATAAAC ATTGGATATGGACAAAAATACACANGATCCTTTCTTTGTCTACGGAAAAATNCTGCAGATCCTTATGT GCCACACTTAAAN[G/C]AAAGTCAACGTTTCTCTCTAGGNTCTGCACACATATTTATCACTGA GAATTTGGTCAACACAGTGGAGNGAACTTACCCAAATCCCAGTTCCTCTCTC
WI-6766	148 G C ---	---	AAACAAATGGTGCAATTGCATAATATTTGTGGTCACAGTATAAAACAATACAATTAGTTCATAAAC ATTGGATATGGACAAAAATACACANGATCCTTTCTTTGTCTACGGAAAAATNCTGCAGATCCTTATGT GCCACACTTAAAN[G/C]AAAGTCAACGTTTCTCTCTAGGNTCTGCACACATATTTATCACTGA GAATTTGGTCAACACAGTGGAGNGAACTTACCCAAATCCCAGTTCCTCTCTC
WI-6787b	97 A G ---	---	ACAGATAAAGTCTTTATTTCCCTGTATGTTACATAAGAAAGTTCTTTACAGACTTTTTTTTATACA ATACTTGTGCAGCAATGTTCAAATTTTCAAGTTCAC/GTTTTACTGCATAAGATATCTTCATGTACAACTGT ATGCTTTGTCTTCTTGGGAAGGACGCGTTAAAGACCTATGATAAACACACATCCACATGACAAAGGA GAGTCAATAGGGCAGAGTAGANTACTCACAGGAAAGAGTAAATTCAGGT
WI-6793	105 C G ---	---	GAACCCACAGGTCCTGTTATTTTAAAGGAGCATTTACATTATGATAGCAAGTTTCAACACATTCA TCAACAAGGCGGCTTCAAATCAATCAGTCAACCCCG[CG]GAGTTAGAAAGTAGAGTCATGAGGAA GAGCTGCTGGCTGAGGAAGTAGGGTTAATGCCCTCTATCCCGGAAAGGGGAGACTGAAGCCA GAGCCAGANTCCTGGCAATTCACCAGTTTCTCATCACAGGTAAAAAGGCAAC
WI-6810b	37 T C ---	---	CACAATAATAAAATCACTCCCTACCTTGAAAACTTTAT/CJAGAAGCATTTTAAATTTTACAACACA AAGCTCAACGNACCTACAATAAGTCTAGTAGTCTGTTACNGCCCAAGGATAAGGCTGAACAATA AATTAACCCCTTTAAAAATGTCTATGNACAAGTACAATTTCTTTTGGTTCTGCAGAGCAATGACC ACTAAGNAATATTTTAAAGGCTGAACAGAAATCCAGCGGCAATGAAGTTAAT
WI-6810	37 T C ---	---	CACAATAATAAAATCACTCCCTACCTTGAAAACTTTAT/CJAGAAGCATTTTAAATTTTACAACACA AAGCTCAACGNACCTACAATAAGTCTAGTAGTCTGTTACNGCCCAAGGATAAGGCTGAACAATA AATTAACCCCTTTAAAAATGTCTATGNACAAGTACAATTTCTTTTGGTTCTGCAGAGCAATGACC ACTAAGNAATATTTTAAAGGCTGAACAGAAATCCAGCGGCAATGAAGTTAAT
WI-6817b	145 C A ---	---	GCATGATTAAACCAGTGCAGAAAAATACCAAGTACATTGGTGAACGATGAGCTAGCTGTTCTAGTA TTTGTCTTTTGTAAATCCAGTTAAGACCATCAGCATATACAACATCATCACTAACTCAACAATGTAGCT GCAGGGTAAC[C/A]TGTGGATACCCCTGTGTGCTCTACTNGCCTCCAAAGGCAATTCAGGGGATCATCA AAGATGTTGGACACCTTGTTGTTCAAAICTTGTTTCAGGTGCGGCTGTGTCAG

WI-6817	145 C A ---	---	---	GCATGATTAAACCAGTGCAGAAAAATACCAAGTACATTGGGTGAACGATGAGCTAGCTGTTCTAGTATTTGCTTTTTGTAAATCCAGTTAAGACCATCAGCATATACAACTCACTAACTCAACAATGTAGCTGCAGGGTAAC[C/A]JGTGGATACCTGTGTGCTCTAGCTAGCTCCAAAGGCATTACGGGGATCATCA AAGATGTTGGACACCTGTGTTCAATCTTGGTTCAGGTGCGGCTGTGCAG
WI-6819b	221 C --- ---	---	---	GATGAAAAGCCATTTTATTTTCTCTAAATTTTAAAAATAGAAGACTTTTAAATGGAAAACATTTAGTACCATGTACCCCTGAATGCCAGCAATACCTCGACTTTTACACACGAGGAGCCTAGTAAAGCCCCCGTCAGTAGTACACATTTCTCTATGTCCTTCAACAGTTTTGCATATACAAAAATTTCTGCTATTTTGCCTTAGCAACAGCAATAACTTTTGTGTTTCTATATGACACCTAATATCCAG
WI-6819a	175 G T ---	---	---	GATGAAAAGCCATTTTATTTTCTCTAAATTTTAAAAATAGAAGACTTTTAAATGGAAAACATTTAGTACCATGTACCCCTGAATGCCAGCAATACCTCGACTTTTACACACGAGGAGCCTAGTAAAGCCCCCGTCAGTAGTACACATTTCTCTATGTCCTTCAACAGTTTTG/TJCATATACAAAAATTTCTGCTATTTGCTTTAGCAACAGCAATAACTTTTGTGTTTCTATATGACACCTAATAT
WI-6826b	154 A G ---	---	---	GCAAAAAGCTTTATTTGGCTCCAAACAATTTATCCCTTTTAAACTCCTCTCTCTCTGCTCAGTGGAACAACACATTTGAATTTTCAGATTTGCAGTTTATAGCATTTTTCCTAAGAACCATATAAATACATGCAAAACCTTGATACATJAGGAGCTTAAATAATATCAAAATGCAAAATATAGATTGGGTGCACGTGTAAGCTGAATTGCAAAATATGGCAACACACACTGGACTGGGTATACGTTG
WI-6826	154 A G ---	---	---	GCAAAAAGCTTTATTTGGCTCCAAACAATTTATCCCTTTTAAACTCCTCTCTCTCTGCTCAGTGGAACAACACATTTGAATTTGCAGTTTGCAGTTTATAGCATTTTTCCTAAGAACCATATAAATACATGCAAAACCTTGATACATJAGGAGCTTAAATAATATCAAAATGCAAAATATAGATTGGGTGCACGTGTAAGCTGAATTGCAAAATATGGCAACACACACTGGACTGGGTATACGTTG
WI-6857a	122 T C ---	---	---	AGTGCAAAACTATTTTGAACAAAAGTAAACTATGAGTCACAGCATTCAGCAAGACATCAGACACGGAAGAGTGAACAATATTCACTAAGTAAATACAGCAGATGAGATGCTCTCACATGTA/TJATTTAATTATTCATGCTTTTCAATAGTCTTAGTCAACTTTCAGTGTAAATTCACAAAATATATAGCAGCTCA AACACAAATGCAGGAGCACAATGGCAAAGTTTGGCAACTGTTTGGGCTAAT
WI-6865	153 G A ---	---	---	TTATAGAATCTTATGGGGCATACGNGTAAATGAACGTGCAACCTTAAATCTAAACAAACAGCTTGTTGTGGTTCGCTGAAATCCTCCCTGCTCACAACAGCCAGCTACTNGGTTTTCTAAAAGACGTATTTTGCAGGCAAACTTC[G/A]JTAGAGCCATTCGTGCAAGAAGGGAAGGAGAGCTGTTTGTTTACCTGTAGTATGAAGATATCTTTGGCTGTAGAACTGAGCTCAITAA
WI-6909	73 C T ---	---	---	ATTGAAAACCTGGTTAGCAACAGATAAATACAAATAGAGCCTGGATATAAAAATGAGAGAAGATGCAGACTTA[C/T]JAAGCTTATAGAGAAAAGTCAAAAAGGAGCAAGTTTTTGAATCAGATTTTATGATACGGAAAAAAAATTTCCCTTTTTTGGCAACAGGATTATTCGAATATAAATCTGCCAGTGCCCAATCAGAAACACCATTTCCACAATATTTGCATGCCCTTAGTTGCCCTATTTTATACATATC

WI-6910b	163 G T ---	---	CACTCAAAACCTTTATTGATTGATTTACAAACGTACAAATATTACAAAGTTTAGGCATTATATCCCA TATTGACATGAATGCTGTGGAGAGTCTAAAAATAATATGTGGACATAGCTTAATATACACATCAT GGCTCTTTACACTTAAGCCATTACCAATA[G/T]TGAGATGTAATGAGAAATTTAATGTGGTAGAAAA GTCAGAGTGGCTGACCAGTCCCGGACCTTCCATGTGAATGACTCTTCCTTGGC
WI-6915	144 A -- ---	---	GCTGTTTTTTTTTGTTTTTAAAGTGACACCTTGGCCTTGTGGCATTCTTCACATTATCTTACCC AAAGTGCTTTGGGCCCAGCCACTGACTGATTTAAACCAGAAATGTGTTTTAAACAATGTGGT CGTGGTAATTCAGGTGATTTTCTATTTGGTAGTATTTTCAGATTCCCAACAAAGAACATG TATTGCTCTTGTAATTTGAAAAAATCAACACAGGATAGTAAAGATAT
WI-6928b	175 T C ---	---	CAATCAAAAGTTCCAAAGTTCAAAGCTGGGATGAAAAGCCAGGCTTCTGACTTGCACCTGTGCAC ACTGGATTTTNCCTCTGATCCAGCTGCAGCTCCCATAGAAAGTTCACTCTTAATTTTCATGTCCCATG CTTGCTTGGTCCCTGTGAGGAAAGGGGTACGCTAAAGG[C/A]AACTGTTCTATAGGATGGGTAGG TATCCTGGCAAGATATTTCTCTGAAATAGTAAACGTGACCTTAGAAGTTA
WI-6928	175 T C ---	---	CAATCAAAAGTTCCAAAGTTCAAAGCTGGGATGAAAAGCCAGGCTTCTGACTTGCACCTGTGCAC ACTGGATTTTNCCTCTGATCCAGCTGCAGCTCCCATAGAAAGTTCACTCTTAATTTTCATGTCCCATG CTTGCTTGGTCCCTGTGAGGAAAGGGGTACGCTAAAGG[C/A]AACTGTTCTATAGGATGGGTAGG TATCCTGGCAAGATATTTCTCTGAAATAGTAAACGTGACCTTAGAAGTTA
WI-6955b	79 G A ---	---	TTTTATGAAACATTTTCAGATTCCTCATATCACAGCACATCAATAAGCAGTATGTACATAGACTGA CTTTTATAGTAC[G/A]NGTCATGTCCCAAATCCCAATCCTAGGTAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAACCTATAGGTAGTATATTAANCAAAATGNGTTTTTNGCAAATTTATGTGAAAT AAGGCTTTAACCAAAGC
WI-6955	79 G A ---	---	TTTTATGAAACATTTTCAGATTCCTCATATCACAGCACATCAATAAGCAGTATGTACATAGACTGA CTTTTATAGTAC[G/A]NGTCATGTCCCAAATCCCAATCCTAGGTAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAACCTATAGGTAGTATATTAANCAAAATGNGTTTTTNGCAAATTTATGTGAAAT AAGGCTTTAACCAAAGC
WI-6957	47 C G ---	---	AAACTAAAAACCCCTTATTGTCTCCAAGTGTGGCAAAATAGAAAAT[C/G]TTTCAATTACATTAGG AAATCGGGTGGATAACGGAGTATAGTTATCCACTTAAGAAGCATCCAGTCAAAATATACAAAA ACAAATTCAGATTGCTTGGATCTTGGTCAATTTATGGCTTGAAGAACTGGATTTGAAACCCTTTAGG CTAAAAATAATGTATATGAATAATGCATAGACTGTGTATCTAGAAAATCATGC
WI-6996c	242 G T ---	---	ACTTCTAGTGCCTCTGTTACCACCACCTCTAATGCCCTCTGGTCGCCGACCTTCTGATGTCGGTAGGCCT TAAATCTGCCTGGGTCCTCCCTCTGCTTCAGACCCAGAGGAGAGAGCCGGCAGTTCCTCG CAGGAGAGAGGAGGGCTGCTGGACCCCAAGGCTCAGTCCCTCTGCTCTCAGGACCCCTGCTCCTGACT CTCTCCTGATGGTGGGCCCCTCTGTGCTCTCTCTTCC[G/T]GTCGGATC

WI-6996b	242	G T	---	---	ACTTAGTGCCCTCTGTTACACACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCTAGGCGCT TAAATCGCCTGGCGTCCCTCCCTCTGTCTCAGCACCCAGAGGAGAGAGCGCGGAGTTCCTTG CAGGAGAGAGGAGGGGCTGCTGGACCCAAAGGCTCAGTCCCTCTGCTCTCAGGACCCCTGTCCTGACT CTCTCCTGATGTGGGCCCTCTGTGCTCTCTCTCTCCG[GTGTCGGATC
WI-6996	228	T G	---	---	ACTTAGTGCCCTCTGTTACACACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCCTAGGCGCT TAAATCGCCTGGCGTCCCTCCCTCTGTCTCAGCACCCAGAGGAGAGAGCGCGGAGTTCCTTG CAGGAGAGAGGAGGGGCTGCTGGACCCAAAGGCTCAGTCCCTCTGCTCTCAGGACCCCTGTCCTGACT CTCTCCTGATGTGGGCCCTCTGT[GTGCTCTCTCTCCGGTCGGATC
WI-7021b	112	G A	---	---	TGGGAGGACAGGGAGATGCTGCAGTTCCTCCAAAGAGAGGTTCTCCAGAGTCATCTACCTGAGTC CTGAAGCTCCCTGTCTGAAAGCCACAGACAATATGGTCCCAAAT[GA]CCCGACTGCACCTTCTGTG CTTCAGCTCTTCTTGACATCAAGGCTCTCCGTTCCACATCCACACAGCCCAATCCAATTAATCAAACC ACTGTTATTAACAGATAATAGCAACTTGGGAATGCTTATGTTACAGGTTA
WI-7021	108	A G	---	---	TGGGAGGACAGGGAGATGCTGCAGTTCCTCCAAAGAGAGGTTCTCCAGAGTCATCTACCTGAGTC CTGAAGCTCCCTGTCTGAAAGCCACAGACAATATGGTCCCAAAT[GA]CCCGACTGCACCTTCTGTG CTTCAGCTCTTCTTGACATCAAGGCTCTCCGTTCCACATCCACACAGCCCAATCCAATTAATCAAACC ACTGTTATTAACAGATAATAGCAACTTGGGAATGCTTATGTTACAGGTTA
WI-7056c	118	C T	---	---	GGCAGTAGGACCACCAAGTGTGGGTTCTGCTGGACCTTGGAGACCTGCATCCAGGATGCGGGTGG CCCTGGAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGA[CT]GGTTGGGAGCCTCT GGGCTGTTGAAGTCACCTTGTGTGTTCCAAAGTTCCAAACACAGAAAGTCATTCCTCTTTTAA ATGGTGCTTAAGTCCAGCAGATGCCACATAAGGGGTTGCCATTTGATA
WI-7056b	118	C T	---	---	GGCAGTAGGACCACCAAGTGTGGGTTCTGCTGGACCTTGGAGACCTGCATCCAGGATGCGGGTGG CCCTGGAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGA[CT]GGTTGGGAGCCTCT GGGCTGTTGAAGTCACCTTGTGTGTTCCAAAGTTCCAAACACAGAAAGTCATTCCTCTTTTAA ATGGTGCTTAAGTCCAGCAGATGCCACATAAGGGGTTGCCATTTGATA
WI-7091b	153	A C	---	---	AATTCGCTGAAAAAGGAACTACCTATCCTTACATTTACCTACTATAATGTCCTTCTAACATCTTAGAG GTCCATGGAGAAGGCATATGGAGAACATGTTTATACTGCTCTATAAATAGTATTCCTCAATCACTGTG CTTAATTTAAATAGCATTA[CT]CTTATCATTTATCAGCCTTTTATGTAATTTCCAAAGTAAATATTA ACATATTATTCATTGGCTCTCTTTTATCTGGTCTATATGAATGCTAT
WI-7091	153	A C	---	---	AATTCGCTGAAAAAGGAACTACCTATCCTTACATTTACCTACTATAATGTCCTTCTAACATCTTAGAG GTCCATGGAGAAGGCATATGGAGAACATGTTTATACTGCTCTATAAATAGTATTCCTCAATCACTGTG CTTAATTTAAATAGCATTA[CT]CTTATCATTTATCAGCCTTTTATGTAATTTCCAAAGTAAATATTA ACATATTATTCATTGGCTCTCTTTTATCTGGTCTATATGAATGCTAT

[illegible]

WI-7175	194 C T ---	---	CTCTAGACTAGTCTTTACCTTTATTAATGAAGTGTACAGGAAGCCCAAGGCAGTGTCCTCACCA ATAACTCAGAGAAAGTCAGTTGGAGAAAATGAAGAAAAGGCTGGCTGAAATCACTATAACCATC AGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGCTGTCAATTGTCATGCCTA[C/T]AGAT AATTTATTTGTATTTTGAATAAAAAACATTTGTACATTCCTGATACCTGGG
WI-7178b	273 G A ---	---	TGATCAGGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTCCTCTGAGCCAGCTGCCTGGAG AGGGTCTCGCTGTCACTGGCTGGCTCTAGGGGAACAGACCAGTGACCCAGAAAAGCATAACACCA ATCCAGGGCTGGCTGTGCACCTAAGAGAAAATTGCACTAAATGAATCTCGTTCCCAAGAACTACCC CCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAATGTGAAGGAA
WI-7178	273 G A ---	---	TGATCAGGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTCCTCTGAGCCAGCTGCCTGGAG AGGGTCTCGCTGTCACTGGCTGGCTCTAGGGGAACAGACCAGTGACCCAGAAAAGCATAACACCA ATCCAGGGCTGGCTGTGCACCTAAGAGAAAATTGCACTAAATGAATCTCGTTCCCAAGAACTACCC CCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAATGTGAAGGAA
WI-7182b	116 A C ---	---	GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGGTCACCAAAAGCTTGATATACAGAGAAGAG AAGGCTCAAGAAATTTATTCACAGTTCTCTGCAACCCACTCTGAGCCT[AV]TCTCTCCTCTATTT TACTGAGGCTGCCAATTACAGCCCCAGTTTCAGCTCAAGAGATGCCCTTAAGATAATTATGTGAGG CCACTTGGTAGCAAGATGGCAGCTATTTCTCTGAAGCCTAGTACCCCAATT
WI-7182	106 C A ---	---	GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGGTCACCAAAAGCTTGATATACAGAGAAGAG AAGGCTCAAGAAATTTATTCACAGTTCTCTGCAACCCACTCTGAGCCT[AV]TCTCTCCTCTATTT TACTGAGGCTGCCAATTACAGCCCCAGTTTCAGCTCAAGAGATGCCCTTAAGATAATTATGTGAGG CCACTTGGTAGCAAGATGGCAGCTATTTCTCTGAAGCCTAGTACCCCAATT
WI-7191b	273 T A ---	---	ATAATTGCTTGTTTCTAGCCTGGCAAGATATTTTCATAAAGAGGGATAACAATGCTGATTACTAC CTTTTAAAATATTTAGATAAATGCACAGCACACACACATCTAAGCATTAGTGATGGTAGC TGATGTCAGCTTCATGTGGATTTTAAGCACTCTAGAAACAATGAAGCTTCTTGGCATATTTTAAGGAG CTCCCAAAATGTGTACCTATTAATTTGAACCTCAGCAAGTAGAAGACCATTT
WI-7199c	112 T C ---	---	CCAGTGGTGAACAGAACCTCCCAAAATTTGAGTTGCACCTTCCCTGTGGCTTATGAGCTCAGCCTC GCCTTGAGGTACCCACCGTCTGTCAGCTCCTTGACCTATGAGCT[CG]GGGGCCTGACTAGGAAAAGT TGGAGTTAAGGAGGAAATAGCATTCCTTAATGTTTGTGTTGGTCTGCTGAATTCCTCTTTATTAT AGTCTATAGTTTTACTCTCAGTTCTCACCATCATCATCTTGCTCTAA
WI-7199b	112 T C ---	---	CCAGTGGTGAACAGAACCTCCCAAAATTTGAGTTGCACCTTCCCTGTGGCTTATGAGCTCAGCCTC GCCTTGAGGTACCCACCGTCTGTCAGCTCCTTGACCTATGAGCT[CG]GGGGCCTGACTAGGAAAAGT TGGAGTTAAGGAGGAAATAGCATTCCTTAATGTTTGTGTTGGTCTGCTGAATTCCTCTTTATTAT AGTCTATAGTTTTACTCTCAGTTCTCACCATCATCATCTTGCTCTAA

WI-7216c	237 T C ---	---	TGACACTAACACTCTAAITCAAGCGAATGTTGGAACACCATGACCTCCTCTGTGTGTCCTTTCTCCCC AAGGACAAAATGTAGAAAGATGTGAGATAACTTACTCAAGATTCCTCCAGAAAAATACGATATGT TTAAAAACCCCTTCCTGCTATACATAGGAAAAGACACACATCCACCTAAAATGACTGTACTGTTTAA CTGTCAATTCTCCTGAGGCTAAACACAGTTTGTITTTTTCCTTGTAATCACTT
WI-7216b	237 T C ---	---	TGACACTAACACTCTAAITCAAGCGAATGTTGGAACACCATGACCTCCTCTGTGTGTCCTTTCTCCCC AAGGACAAAATGTAGAAAGATGTGAGATAACTTACTCAAGATTCCTCCAGAAAAATACGATATGT TTAAAAACCCCTTCCTGCTATACATAGGAAAAGACACACATCCACCTAAAATGACTGTACTGTTTAA CTGTCAATTCTCCTGAGGCTAAACACAGTTTGTITTTTTCCTTGTAATCACTT
WI-7220b	147 A T ---	---	AGGATGATGCTCCAAAGGGGACCTTGAACCTATTCACCATTTTGTCTCTTTAAGCTGGCAACCCCA TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGACAGCTTCAGTAATCAATGGGCA GTGGCACTAGAAATJAATCTTGAGCACAGTGAATGACCTATCCTGCAACATCTAATGGATCTCTA AAGGTAACAAACCCCTATAAATCTGGCTTACTGCACATATTTAGTGTTT
WI-7220	140 A T ---	---	AGGATGATGCTCCAAAGGGGACCTTGAACCTATTCACCATTTTGTCTCTTTAAGCTGGCAACCCCA TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGACAGCTTCAGTAATCAATGGGCA GTGGCAATCTAGAAAATCTTGAGCACAGTGAATGACCTATCCTGCAACATCTAATGGATCTCTA AAGGTAACAAACCCCTATAAATCTGGCTTACTGCACATATTTAGTGTTT
WI-7226	232 C --- ---	---	GATCGAAATTTTCAGATGATTCGGAATTTTCATTGAGGTAATTTGTAATAGTGACATATATATGTATA TACATATCACCTCCTATCTCTAAATTTTGTAAATGTTAACTGGCAGTAAGTCTTTTGTGATCATTT CCCTTTCCATATAGGAAACATAAATTTGAAGTGGCCAGATGAGTTTATCATGTCAGTGAAAAATAA TTACCCACAAATGCCACAGTAACCTTAACGATTCTTCACTTCTTGGGGTTT
WI-7228b	254 G A ---	---	ATAGCTTCCAGATTACAAAAGGCCAAGGTAATAGAAATGCATACCAGTAATGGCTCCAATTCATAA TATGTTCAACAGGAGATTACAAATTTTGTCTCTTCTTGTCTTGTATCTATTTAGTTGATTTTAAATTA CTTCTGAATAACGGGAGGATCAGAAGATATCTTTTGTGCTAGATTGCAAAATCTCCAATCCACA CATATTGTTTTAAATAAGAAATGTTATCCAACATTAAGATATCTCAATGTT
WI-7228a	163 G A ---	---	ATAGCTTCCAGATTACAAAAGGCCAAGGTAATAGAAATGCATACCAGTAATGGCTCCAATTCATAA TATGTTCAACAGGAGATTACAAATTTTGTCTCTTCTTGTCTTGTATCTATTTAGTTGATTTTAAATTA CTTCTGAATAACGGGAGGATCAGAAAGATATCTTTTGTGCTAGATTGCAAAATCTCCAATCC ACACATATTGTTTTAAATAAGAAATGTTATCCAACATTAAGATATCTCAATGTT
WI-7233c	213 C T ---	---	CGATCGTACTGCCAGTAGCAATTTGTCTGTCTGTCGGGCTTGTGTTGTACATTCATTTTCAATTTGTTACA GATGTGAACCTTTATTCCTTGTCACTAATATATATTTAAATTTTCTAGGAAGTCAAAAAATATAA TAAAGGTTGAGCCCTCTACTTTCTTCTGCCACCTTTTGTGGCAATATTAAGTGAAGTGAAGTGAATA GTGTAAGTATC/TGTGCACAAAACCACTGCCAGATAACAGAGGGGCTG

WI-7233b	213	C T ---	---	CGATCGTACTGCCAGTAGCATTGTCTGTCTGTCGGTCTTGTTGTACATTCACATTTCAATTGTTTACA GATGTGAACATTTATTCCTTGTCACATAATATTTAAATTAATTTCTAGGAAGTCAAAAAATATAA TAAAGGGTTAGCCCTCTACTTTCTTCTGACCCTTTTGTGGCAATATTAAGTGAACGTGCTAATA GTGTAAGTA[C/T]GTGCACAAAACCACTGCCAGATAACCCAGAGGGGCCTG
WI-7233	211	T C ---	---	CGATCGTACTGCCAGTAGCATTGTCTGTCTGTCGGTCTTGTTGTACATTCACATTTCAATTGTTTACA GATGTGAACATTTATTCCTTGTCACATAATATTTAAATTAATTTCTAGGAAGTCAAAAAATATAA TAAAGGGTTAGCCCTCTACTTTCTTCTGACCCTTTTGTGGCAATATTAAGTGAACGTGCTAATA GTGTAAGT[C/A]GTGCACAAAACCACTGCCAGATAACCCAGAGGGGCCTG
WI-7238	128	T C ---	---	GGCTCTACAGACAGCTACCATTTTGTCTGTATCTGTAAACACATTTTGTCTTAGTCTTTTCTTG TAAAAATTGATGTTCTTTAAATCGTTAATGTATAACAGGCTTATGTTTCAGTTTGTTT[C/J]CCGTT CTGTTTAAACAGAAAATAAAAGGAGTGAAGCTCTTTCTCATTTTCAAAGTTGCTACCAAGTGAT GCAGTAATTAGAACAAAAGAAACATTTCAGTAGAACATTTTATTGCCTA
WI-7252f	520	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGCCCGGGGACAGAG GCCTGCCCGGGCGCCAGCCCGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTCTGTCCG GACACTCTAGAGAACGCGCCTAGAGCCTGCCTGGAGCGTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCTGGAGGATGCAGGTGGAACCTCAGTCATTAGACTCCTCTCTCCA
WI-7252e	552	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGCCCGGGGACAGAG GCCTGCCCGGGCGCCAGCCCGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTCTGTCCG GACACTCTAGAGAACGCGCCTAGAGCCTGCCTGGAGCGTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCTGGAGGATGCAGGTGGAACCTCAGTCATTAGACTCCTCTCTCCA
WI-7252d	540	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGCCCGGGGACAGAG GCCTGCCCGGGCGCCAGCCCGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTCTGTCCG GACACTCTAGAGAACGCGCCTAGAGCCTGCCTGGAGCGTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCTGGAGGATGCAGGTGGAACCTCAGTCATTAGACTCCTCTCTCCA
WI-7252c	552	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGCCCGGGGACAGAG GCCTGCCCGGGCGCCAGCCCGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTCTGTCCG GACACTCTAGAGAACGCGCCTAGAGCCTGCCTGGAGCGTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCTGGAGGATGCAGGTGGAACCTCAGTCATTAGACTCCTCTCTCCA
WI-7252b	540	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGCCCGGGGACAGAG GCCTGCCCGGGCGCCAGCCCGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTCTGTCCG GACACTCTAGAGAACGCGCCTAGAGCCTGCCTGGAGCGTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCTGGAGGATGCAGGTGGAACCTCAGTCATTAGACTCCTCTCTCCA



WI-7252a	520 T C ---	---	CCACAGGATCCCAGCCCAAGGGCCCCCTCCGCCCCCTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCGGGGCGCCAGCCCCCGCCCTGGGCTGGAGGCTGCCCGGGCCCCCTGGTCTGGTCCG GACACTCTAGAGAACGCGAGCCCTAGAGCCCTGCCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACCTCAGTCACTAGACTCCTCCTCCA
WI-7265m	252 T A ---	---	AACCTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCTCTT AAAAATACCAACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTTT/
WI-7265l	231 T A ---	---	AACCTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCTCTT AAAAATACCAACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTTT
WI-7265k	121 T G ---	---	AACCTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT GTTTAAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCT CTTAAAAATACCAACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTTT
WI-7265j	174 T A ---	---	AACCTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCT CTTAAAAATACCAACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTTT
WI-7265i	227 T C ---	---	AACCTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCTCTT AAAAATACCAACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTTT
WI-7265h	80 T A ---	---	AACCTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT GTTTAAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCT CTTAAAAATACCAACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTTT
WI-7265g	170 T G ---	---	AACCTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCT CTTAAAAATACCAACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTTT

WI-7265f	231	T A ---	---	AAC TTG GTT ATG TCA GTT CCT GTG TGT AGA CAG TAA GGA AAAAA AGG CAT GCT ATG TGT ACG TGT TT TTT CCA GT ATG TTT AT TTT GCC ACC AAAAA AGT AAAT GCA TTTT CAC CCA TTCT GTG GTT CAT TGT AG TT TAAG GAA ACCA AGC ATAT AGAT GCA TTAG TGA TTTT GTT TAT ATG TAA AATATA ACG ATCT CT AAAA TACC ACAG TTTG TAT TTTT CTTT /A/ AAG GAG TAA GAT TTTG CCT
WI-7265e	227	T C ---	---	AAC TTG GTT ATG TCA GTT CCT GTG TGT AGA CAG TAA GGA AAAAA AGG CAT GCT ATG TGT ACG TGT TT TTT CCA GT ATG TTT AT TTT GCC ACC AAAAA AGT AAAT GCA TTTT CAC CCA TTCT GTG GTT CAT TGT AG TT TAAG GAA ACCA AGC ATAT AGAT GCA TTAG TGA TTTT GTT TAT ATG TAA AATATA ACG ATCT CT AAAA TACC ACAG TTTG TAT TTTT CTTT /C/ CTTA AGG AGTAA GAT TTTG CCT
WI-7265d	174	T A ---	---	AAC TTG GTT ATG TCA GTT CCT GTG TGT AGA CAG TAA GGA AAAAA AGG CAT GCT ATG TGT ACG TGT TT TTT CCA GT ATG TTT AT TTT GCC ACC AAAAA AGT AAAT GCA TTTT CAC CCA TTCT GTG GTT CAT TGT AG TT TAAG GAA ACCA AGC ATAT AGAT GCA TTAG TGA TTTT GTT /T/ A TAT ATG TAA AATATA ACG ATCT CTTAAAA TACC ACAG TTTG TAT TTTT CTTT AAG GAG TAA GAT TTTG CCT
WI-7265c	170	T G ---	---	AAC TTG GTT ATG TCA GTT CCT GTG TGT AGA CAG TAA GGA AAAAA AGG CAT GCT ATG TGT ACG TGT TT TTT CCA GT ATG TTT AT TTT GCC ACC AAAAA AGT AAAT GCA TTTT CAC CCA TTCT GTG GTT CAT TGT AG TT TAAG GAA ACCA AGC ATAT AGAT GCA TTAG TGA TTTT GTT /G/ TGT TAT ATG TAA AATATA ACG ATCT CTTAAAA TACC ACAG TTTG TAT TTTT CTTT AAG GAG TAA GAT TTTG CCT
WI-7265b	121	T G ---	---	AAC TTG GTT ATG TCA GTT CCT GTG TGT AGA CAG TAA GGA AAAAA AGG CAT GCT ATG TGT ACG TGT TT TTT CCA GT ATG TTT AT TTT GCC ACC AAAAA AGT AAAT GCA TTTT CAC CCA TTCT GTG /G/ GTT CAT TGT A GTTA AGG AACC AAGC ATAT AGAT GCA TTAG TGA TTTT GTT TAT ATG TAA AATATA ACG ATCT CTTAAAA TACC ACAG TTTG TAT TTTT CTTT AAG GAG TAA GAT TTTG CCT
WI-7265a	80	T A ---	---	AAC TTG GTT ATG TCA GTT CCT GTG TGT AGA CAG TAA GGA AAAAA AGG CAT GCT ATG TGT ACG TGT TT TTT CCA GT ATG TTT /A/ TTT GCC ACC AAAAA AGT AAAT GCA TTTT CAC CCA TTCT GTG GTT CAT TGT A GTTA AGG AACC AAGC ATAT AGAT GCA TTAG TGA TTTT GTT TAT ATG TAA AATATA ACG ATCT CTTAAAA TACC ACAG TTTG TAT TTTT CTTT AAG GAG TAA GAT TTTG CCT
WI-7281b	183	C ---	---	GAT CAC CCA GCA GCA AAG CCTT CGAG GGC CCT ATACC ATGG CCA CCTT GGAG CAG AGAC CAAGC ATCTT CCT GGG AAG TCTT CTGG CCA AGTCTGG CCA GCTTGG CCA GCTTGG CCA TCCCAT GAAG GCCA CCCC ATGG TCTGAT GGG CATGA AGC ATCTCAG ACTCTTGG CCA AAAAA CCGAG TCCG CAGGCC GAG GTG TTTG TGAAG ACCACTCG TTTCTGTG TTTGGG TCTCTG CAAAGG CCTCCTC
WI-7281	171	C A ---	---	GAT CAC CCA GCA GCA AAG CCTT CGAG GGC CCT ATACC ATGG CCA CCTT GGAG CAG AGAC CAAGC ATCTT CCT GGG AAG TCTT CTGG CCA AGTCTGG CCA GCTTGG CCA GCTTGG CCA TCCCAT GAAG GCCA CCCC ATGG TCTGAT GGG CATGA AGC ATCTCAG ACTCTTGG CCA AAAAA CCGAG TCCG CAGGCC GAG CAGG TGTG TGAAG ACCACTCG TTTCTGTG TTTGGG TCTCTG CAAAGG CCTCCT

WI-7282b	159	G C ---	---	TGTCACCTGGCACATTCTTCAGTTGAAGAAGAGAAAAATTTGAAAATGTCCTTATGCTTTTAGA GTTGCAACTTAAGTATATTTGGTAGGGTGAGTGTTCCTCACTCAAAATATGTCAACTTNNNNNNNNNT AGGCCCTTTCATAAAAACCAAACCT[G/C]TAGCAAGATGCAAAATGCATGGCAAAATCTGTCGGTCTCCA GTTGGTTATCTGAATAGTGTCAACAAATCCACCAAGACAGTGCTGAGATTGG
WI-7292	92	T C ---	---	CTTGATTACTTCCACTGAGGTGGGAGCATCTCCAGTGTCTCCCAATTATATCTCCCCCACTCCACTAC TCTCTCCTCCACTTCAATTTTCCG[C]/GTTGTCTCTCTCTAATTCAGTGTTTTGAGGGCCTGACTTG GGGACACAGTATTATTGATATTATTGCTGTTTCTCTTCCCAATAGAATAAGATCATGGAGCC TGAAGGGTGCCTAGTTGACTTACTGACAAAAGGCTCTAGTTGGGCTGA
WI-7301f	133	A G ---	---	AACTATGGCAGTGGTCTGTTATAGTAGAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTG A/GJCGGTAGTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCA ATCAAAATTATGGACACATGAAGGGGGCAGTTTGGTGGAAAGAGCTCGGGCAG
WI-7301e	94	T G ---	---	AACTATGGCAGTGGTCTGTTATAGTAGAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTG[C]/GTTGAGGATATGATGGTTACAATGAAGGAGGAAATTT TGACGGTAGTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAAATTATGGACACATGAAGGGGGCAGTTTGGTGGAAAGAGCTCGGGCAG
WI-7301d	138	A G ---	---	AACTATGGCAGTGGTCTGTTATAGTAGAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTTGA CGGT[A/G]GTAACTATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAAATTATGGACACATGAAGGGGGCAGTTTGGTGGAAAGAGCTCGGGCAG
WI-7301c	211	A C ---	---	AACTATGGCAGTGGTCTGTTATAGTAGAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTTGA CGGTAGTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAATCA AATTATGGAC[A/C]CATGAAGGGGGCAGTTTGGTGGAAAGAGCTCGGGCAG
WI-7301b	182	C T ---	---	AACTATGGCAGTGGTCTGTTATAGTAGAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTTGA CGGTAGTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATT[A/C]TJAGTGGACAACAGCAA TCAAAATTATGGACACATGAAGGGGGCAGTTTGGTGGAAAGAGCTCGGGCAG
WI-7301	88	G T ---	---	AACTATGGCAGTGGTCTGTTATAGTAGAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTG[C]/GTCGGTGTGGAGGATATGATGGTTACAATGAAGGAGGAAATTT TGACGGTAGTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAAATTATGGACACATGAAGGGGGCAGTTTGGTGGAAAGAGCTCGGGCAG

WI-7301	205 A C ---	---	---	AACTATGGCAGTGGTCTGGTTATAGTAGAGGGCGGTATGTGTGGTGGACAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTTGGAGGATATGATGTTACAATGAAGGAGGAAATTTTGA CGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAATCA AATTACJTGACACATGAAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG
WI-7314c	49 G A ---	---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAAATTTGGGAGGTCA[G/A]TTGTTCTACCTCACTG AGAGGGAACAGAAAGGATATTGCTTCTTTTCAGCAGTGTAATAAGTCAATTAAAACTTCCCAGG ATTCTTTGGACCCAGGAACAGCCATGTGGTCTTCTGTGCACTATGAACGCTTCTTCCCAGGA CAGAAAATGTAGTCTACCTTTATTTTATTAAACAAAACCTGTTTTT
WI-7314b	49 G A ---	---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAAATTTGGGAGGTCA[G/A]TTGTTCTACCTCACTG AGAGGGAACAGAAAGGATATTGCTTCTTTTCAGCAGTGTAATAAGTCAATTAAAACTTCCCAGG ATTCTTTGGACCCAGGAACAGCCATGTGGTCTTCTGTGCACTATGAACGCTTCTTCCCAGGA CAGAAAATGTAGTCTACCTTTATTTTATTAAACAAAACCTGTTTTT
WI-7314	36 A G ---	---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAAATTTGGGAGGTCA[G/A]TTGTTCTACCTCACTG AGAGGGAACAGAAAGGATATTGCTTCTTTTCAGCAGTGTAATAAGTCAATTAAAACTTCCCAGG ATTCTTTGGACCCAGGAACAGCCATGTGGTCTTCTGTGCACTATGAACGCTTCTTCCCAGGA CAGAAAATGTAGTCTACCTTTATTTTATTAAACAAAACCTGTTTTT
WI-7321b	199 C T ---	---	---	ACTCAGGGAAGGGATGCCCCATTAAAGTGACAAAAGGGTGGGGTGGGCACCATGGCATGAGGAAG AAACAAGGTCCCTGAGCAGGCACAAAGTCTGACAGTCAAGGGAGTCTTTGGCATCCAGGCTCCA GTCACCTCACTGCCATACATTAGAAATGAGACAATCAAGNNNNNNNAGGGTGGCACACCCATC[C /T]GTTTGTGGGTGTGGCAGCCACATCCAAAGACTGGAGCAGCGCTGGCCA
WI-7321	199 C T ---	---	---	ACTCAGGGAAGGGATGCCCCATTAAAGTGACAAAAGGGTGGGGTGGGCACCATGGCATGAGGAAG AAACAAGGTCCCTGAGCAGGCACAAAGTCTGACAGTCAAGGGAGTCTTTGGCATCCAGGCTCCA GTCACCTCACTGCCATACATTAGAAATGAGACAATCAAGNNNNNNNAGGGTGGCACACCCATC[C /T]GTTTGTGGGTGTGGCAGCCACATCCAAAGACTGGAGCAGCGCTGGCCA
WI-7336b	248 A C ---	---	---	AGACATTCTCGTTCCTGAAAGACTGAAGAAAGTGTAGTGCATGGGACCCACGAAACTGCCCTGGC TCCAGTGAACCTTGGGCACATGCTCAGGCTACTATAGTCCAGAAAGTCTTATGTTAAGCCCTGGCAG GCAGGTGTTTATTAATAATCTGAATTTGGGATTTTCAAAGATAATATTTACATACACTGTATGT TATAGAACTTCATGGATCAGATCTGGGGCAGCAACCTATAAATCA[A/C]CA
WI-7338c	221 A G ---	---	---	CTCTTCTCAGCACATTGATGGGCAACTAGAAATTACAGCAGTTTCAAACCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTTACCTTGAGC CATTATTGTGTCAGAGAACAAAGAAACAGAAATCAATATATAAATCAAAGACTATCTGCAGCTA GTGTGTTCTTCTTTACACAC[A/G]TATACACACAGACATCAGAAAATCTGTT

WI-7338b	125	A C ---	---	CTCTTTCTCAGCACATTGATGGGCAACTAGAAATACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTT[A/C]CCTTG AGCCATTATTTGTGCAGAGAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAG CTAGTGTGTTCTTCTTTACACATATACACACAGACATCAGAAAAATTCGTGT
WI-7338	125	A C ---	---	CTCTTTCTCAGCACATTGATGGGCAACTAGAAATACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTT[A/C]CCTTG AGCCATTATTTGTGCAGAGAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAG CTAGTGTGTTCTTCTTTACACATATACACACAGACATCAGAAAAATTCGTGT
WI-7338	221	A G ---	---	CTCTTTCTCAGCACATTGATGGGCAACTAGAAATACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTTACCTTGAGC CATTATTTGTGCAGAGAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAGCTA GTGTGTTCTTCTTTACACAC[A/G]TATACACACAGACATCAGAAAAATTCGTGT
WI-7384c	146	T A ---	---	CCATGTCAATGAAATGCTAGGGGGCCAGGGAACAAAAATTTAAAAATAATAAAATTCACCATAG CAATACAGAAATAACTTTAAATACCATTAATACATTGTATTTCAATGTGAACAGGATTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTACTGTGTTTAAAGGGATGTTA TTTTAAAGCATATACCATACACTTAAGAAATTTGAGCAGAAATTTAAAAAGAA
WI-7384b	146	T A ---	---	CCATGTCAATGAAATGCTAGGGGGCCAGGGAACAAAAATTTAAAAATAATAAAATTCACCATAG CAATACAGAAATAACTTTAAATACCATTAATACATTGTATTTCAATGTGAACAGGATTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTACTGTGTTTAAAGGGATGTTA TTTTAAAGCATATACCATACACTTAAGAAATTTGAGCAGAAATTTAAAAAGAA
WI-7384	145	T A ---	---	CCATGTCAATGAAATGCTAGGGGGCCAGGGAACAAAAATTTAAAAATAATAAAATTCACCATAG CAATACAGAAATAACTTTAAATACCATTAATACATTGTATTTCAATGTGAACAGGATTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTACTGTGTTTAAAGGGATGTTA TTTTAAAGCATATACCATACACTTAAGAAATTTGAGCAGAAATTTAAAAAGAA
WI-7388c	106	A T ---	---	TGAAATCCTGGGTCTCTGGCCTGCTCTAGCTGGTTATTTTACTTTGCCCCCTCCCACATTTT TGAGATCCATCCTTTATCAAGAACTGAAGCGACT[A/J]TAAAGGTTTTGAATTCAGATTTAAAA ACCAACTTATAAGCATTCGAACAAGTTACCTCTATTTGCCACAAGCGTCTCGGGATTGTGTTGA CTTGCTGTCTCCAGAAGACTTTTCCCCCAAGATGTGTATAGTTATTGG
WI-7388b	106	A T ---	---	TGAAATCCTGGGTCTCTGGCCTGCTCTAGCTGGTTATTTTACTTTGCCCCCTCCCACATTTT TGAGATCCATCCTTTATCAAGAACTGAAGCGACT[A/J]TAAAGGTTTTGAATTCAGATTTAAAA ACCAACTTATAAGCATTCGAACAAGTTACCTCTATTTGCCACAAGCGTCTCGGGATTGTGTTGA CTTGCTGTCTCCAGAAGACTTTTCCCCCAAGATGTGTATAGTTATTGG

WI-7388	94 T A ---	---	TGAAATCCTGGGTCCTGGCCTGTCCTGTAGCTGGTTATTTTACTTTGCCCCCTCCCCACTTTTTT TGAGATCCATCCTTTATCAAGAAGT/AJCTGAAGCGGACTATAAAGGTTTTTGAATTCAGATTTTAAAA ACCAACTATAAGCAATTGCAACAAGGTACCTCTATTTTGGCCACAAGCGTCTCGGGATTGTGTTTGA CTTGCTGTCTGTCGAAGAACCTTTTCCCCCAAGATGTGTATAGTTATTGG
WI-7438	64 A G ---	---	TTAGATTTTAATTGGCAACCAGCAACTCACTGCCACCATTCCACTGCAGATCTNCTATTCCTGG[A/G] GTTGATATGACAAGGAACCCTATTGGAACCAAGTCTTCAGATTGNCATGTGCAGACAGGCTCCT TGCTGTAGGTGTAGTAGCATGTACACTGTACTGTTCACTGTAACTAGTTGTGNCCTGGTATTGTTA TTGGAATGAATATCGCTTCCACTGACITTTACCA
WI-7454b	152 T C ---	---	CCATGATCCCCCTCCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAACAAGCCCCAAACC CAGTACAAACTGAGAAATGAGAGAACCTGTATAGCACTGTCTGAATGGCAGGAGCCTCCAAGGCTAA TCCTACCCCTGGATTCTT/CJTGTGTTTAAAGTTATTTCTAGCCACCACAAGAGGGTACTGCCCCAA CAGACTCATCCTTAAAAAATCCCATTTGTCTACTTCTCAAAATGTTTTGACA
WI-7454	152 T C ---	---	CCATGATCCCCCTCCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAACAAGCCCCAAACC CAGTACAAACTGAGAAATGAGAGAACCTGTATAGCACTGTCTGAATGGCAGGAGCCTCCAAGGCTAA TCCTACCCCTGGATTCTT/CJTGTGTTTAAAGTTATTTCTAGCCACCACAAGAGGGTACTGCCCCAA CAGACTCATCCTTAAAAAATCCCATTTGTCTACTTCTCAAAATGTTTTGACA
WI-7464c	177 G C ---	---	AATTTGAAAAATCTGAAAAAAGTGCAATAAGCAGAGAGAAATGACACTTATTCCAAATAAATAAATTGT CCATTTTTCAGTCAGTCCATCTTAACCATGTACAATGCACATAAATCTATTATTAATTCCTATGTA CAACAGAGCCACAGCACAGAGGGTGGCATAAGCAGTTGCCA[G/C]CCAGAAGAGCTTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAGCAACGTTCAACCAACAATTAT
WI-7464b	168 C A ---	---	AATTTGAAAAATCTGAAAAAAGTGCAATAAGCAGAGAGAAATGACACTTATTCCAAATAAATAAATTGT CCATTTTTCAGTCAGTCCATCTTAACCATGTACAATGCACATAAATCTATTATTAATTCCTATGTA CAACAGAGCCACAGCACAGAGGGTGGCATAAGCAGTTGCCA[G/C]CCAGAAGAGCTTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAGCAACGTTCAACCAACAATTAT
WI-7464a	103 C A ---	---	AATTTGAAAAATCTGAAAAAAGTGCAATAAGCAGAGAGAAATGACACTTATTCCAAATAAATAAATTGT CCATTTTTCAGTCAGTCCATCTTAACCATGTACAATGCACATAAATCTATTATTAATTCCTAT GTACAACAGAGCCACAGCACAGAGGGTGGCATAAGCAGTTGCCAGCCAGAAGAGCTTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAGCAACGTTCAACCAACAATTAT
WI-7499b	134 T G ---	---	CAATTCTCAATCCAACTAGTCTGTGNTGCCTAAACCATTCCAGACAAACTCCACTTCGAAGGTTTTTA AATGCATAAGTCAGATAGCAATCCCTCAGTTGCCCCAGAGGCACATCAGTTCTTTGAATGCTTCAIT /GJTATAGTCCCTCTTCATTTAGCAATCAGTGAGGCAATACACTGGCATCATGATCCCTTTTTTAGGA ACTCTGTACAAAAATCCCTTTGAAAAATATAAATTTTGGAAATGAGTGATGA

WI-7499a	33 A G ---	---	CAATTCTCAATCCAACCTAGTCTGNTGCCTAA/GGCCATTCCAGACAACTCCACITTCGAAGGTTTAAATGCATAAGTCAGATAGCAATCCTTCAGTTGCCCCAGAGGCACATCACGTTCTTTGAATGCTTCATTATAGTCTCTTCATTTAGCAATCAGTGAGGCAATACACTGGCATCATGATCCCTTTTTTTTAGGAACTCTGTACAAAATCCCTTTGAAAATATAAATTTTGGAAATGAGTGATGA
WI-7506b	118 A C ---	---	TGGGAATAGTAAGAGAAAGATGGGAAAGGTGACCAAAAACAATATAGAGGCAGAGGCCAAGTGAATGCATCCCAGCAGCAGACCACCTTNAAGAGTAGTCTGGTGTGATTGCCTAGC/A/CJGGAGAGTTGAGTGCCACAGGTAAAGATGAGTGAAGAGGAAAAATCATGATGTCATGTCAGTAATTACTATGTCAGAAGAAAATATTTTAAAATATTGGACCACCTCTGTCTACCATCCCTAGCCACT
WI-7506	118 A C ---	---	TGGGAATAGTAAGAGAAAGATGGGAAAGGTGACCAAAAACAATATAGAGGCAGAGGCCAAGTGAATGCATCCCAGCAGCAGACCACCTTNAAGAGTAGTCTGGTGTGATTGCCTAGC/A/CJGGAGAGTTGAGTGCCACAGGTAAAGATGAGTGAAGAGGAAAAATCATGATGTCATGTCAGTAATTACTATGTCAGAAGAAAATATTTTAAAATATTGGACCACCTCTGTCTACCATCCCTAGCCACT
WI-7534b	143 C T ---	---	TGTGAATCTTAGCTGGAAGGTGTTATGCCCTTTCGGGGTTCTTGATGTTCCAGTGTCAACCCCAAGATCAGAACTGTACACATCCCAAAATTTGGTGGCCGTGAACACATCCCGGTGATAGAATTGCTAAATTG[C]/JGTGAATAGGTTAGAAATTTCTTTAAATATGGTTTCTTATTCTGTGAAAAATTCGGAGAGTGTCTGCTAAAAATGGATTGGTGTGATCTTTTGGTAGTTGTAATTT
WI-7534	135 T C ---	---	TGTGAATCTTAGCTGGAAGGTGTTATGCCCTTTCGGGGTTCTTGATGTTCCAGTGTCAACCCCAAGATCAGAACTGTACACATCCCAAAATTTGGTGGCCGTGAACACATCCCGGTGATAGAATTGCT/CJAAATTCGTGAAATAGGTTAGAAATTTCTTTAAATATGGTTTCTTATTCTGTGAAAAATTCGGAGAGTGTCTAAAAATGGATTGGTGTGATCTTTTGGTAGTTGTAATTT
WI-7543b	162 G A ---	---	GGGAAAGAATAAAATAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTGAAGACCAGTCTGTTGCAGGGAAGCCCACTTGAAGGAAGAAGTCTAAGAGTGAAGTAGGTGTGACTTGAAC TAGATTGCATGCTTCTCTCTTGGCTT[G/A]GGAAAGACCAGCTTGCAGTGACAGCTTGAGTGGGTTCTCTGCAGCCCTCAGATTATTTTCCCTCTGGCTCCTTGGATGTAGTCAGTTA
WI-7543	162 G A ---	---	GGGAAAGAATAAAATAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTGAAGACCAGTCTGTTGCAGGGAAGCCCACTTGAAGGAAGAAGTCTAAGAGTGAAGTAGGTGTGACTTGAAC TAGATTGCATGCTTCTCTCTTGGCTT[G/A]GGAAAGACCAGCTTGCAGTGACAGCTTGAGTGGGTTCTCTGCAGCCCTCAGATTATTTTCCCTCTGGCTCCTTGGATGTAGTCAGTTA
WI-7555c	60 T C ---	---	GGTGATCAAGATCTGTTCCACAGGGCTAATGCCACCATCTCCCTCAAAAATTTGTAGAGGT/CJCTA AAAAGAAAGTGGTATGTTGTGTGATGATCAGCAGTAAAGTCTGATTCCTGTTAAAGCCACTTGGGTCATAAAGAGGGGAAGTAAAAATGAAGTCTGACTAGAAAATCTATTGCAGAGGCCAAGTACATTTAGTATGGCATTGAGTTGTGATATAGTTTTCATTTTGTGATGTGCAATTTTGAATTTTTCAG

[illegible]



WI-7576b	168 A T ---	---	AATGATGATGATAATGATGATGACGACGACAAACGATGATGCTTGTAACAAGAAACATAAGAGAGC CTTGGTTCAICAGTGTTAAAAAATTTTGAAAAGCGGGTACTAGTTTCAGACACTTTGGAAGTTTGTT TCTGTTTGTTAAACTGGCATCTGACACAAAAAA[A/T]GTTGAAGGCCTTATTTCTACATTTCACTAC TTTGTAAGTGAGAGAGACAAAGAACAAANNNNNNNNNNNAAAAAGAAAAATAAAC
WI-7577g	77 T C ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAA[G/C]GTTTGCTTTCCCTT TAAAAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577p	50 G C ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAATAA AGAAGTTCAATTTGGTTTACAC[G/A]TAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577o	157 G A ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAA[G/A]GTTTGCTTTCCCTT TAAAAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577n	48 A G ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577m	84 G A ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577l	93 T C ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577k	154 C A ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAATAA AGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC

WI-7577i	117 A G ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTACTTTCTGAGGGTTTAGTAA/GACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTTAATGTGGCCTGTTATACATGACACTCTTCTGAAATTGACTGTATTTC
WI-7577i	77 T C ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCA/T/CJCAAAATCGTCTCTCATTACTTTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTTAATGTGGCCTGTTATACATGACACTCTTCTGAAATTGACTGTATTTC
WI-7577h	50 G C ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTCATTACTTTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTTAATGTGGCCTGTTATACATGACACTCTTCTGAAATTGACTGTATTTC
WI-7577g	157 G A ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTACTTTCTGAGGGTTTAGTAAACAGTAGGAGTTAATAA AGAAGTTCAATTTGGTTTACAC/G/ATAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAAATTGACTGTATTTC
WI-7577f	48 A G ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTCATTACTTTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTTAATGTGGCCTGTTATACATGACACTCTTCTGAAATTGACTGTATTTC
WI-7577e	84 G A ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATC[G/A]TCTCTCATTACTTTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTTAATGTGGCCTGTTATACATGACACTCTTCTGAAATTGACTGTATTTC
WI-7577d	93 T C ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTACTTTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTTAATGTGGCCTGTTATACATGACACTCTTCTGAAATTGACTGTATTTC
WI-7577c	154 C A ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTACTTTCTGAGGGTTTAGTAAACAGTAGGAGTTAATAA AGAAGTTCAATTTGGTTTAC/JACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAAATTGACTGTATTTC

WI-7577b	117 A G ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAAGTGTTCCTTTCCTTAA AAATATGCATCAAAATCGTCTCTACTTTCTCTGAGGGTTTAGTA[A/G]ACAGTAGGAGTTAAT AAAGAAAGTTCAATTTTGGTTACACGTAGGAAAGAGAGCATCAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577	107 G A ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAAGTGTTCCTTTCCTTAA AAATATGCATCAAAATCGTCTCTACTTTCTCTGAG[G/A]GTTTAGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTTGGTTACACGTAGGAAAGAGAGCATCAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7619q	106 C G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTCTATCCCTCCCTAACGAGACT[C/G]TCTGTCTGGGGTGTCTAATTAC ATGGCAGGAAGATGGGCCCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCT CTCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619p	150 T C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTCTATCCCTCCCTAACGAGACTCTCTGTCTGGGGTGTCTAATTACATGG CAGGAAGATGGGCC[T/C]CTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTC TCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619o	228 A G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTCTATCCCTCCCTAACGAGACTCTCTGTCTGGGGTGTCTAATTACATGG CAGGAAGATGGGCCCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT CGCTTCTTCTTACACAGAAACAT[A/G]CACATACCGAGAAACCTATTTC
WI-7619n	237 G C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTCTATCCCTCCCTAACGAGACTCTCTGTCTGGGGTGTCTAATTACATGG CAGGAAGATGGGCCCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT CGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619m	99 C T ---	---	ACAAGGCGACTTGAAGAGGACGCGAGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTCTATCCCTCCCTAACGAGACTCTCTGTCTGGGGTGTCTAATTACA TGGCAGGAAGATGGGCCCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTC TCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619l	189 T A ---	---	ACAAGGCGACTTGAAGAGGACGCGAGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTCTATCCCTCCCTAACGAGACTCTCTGTCTGGGGTGTCTAATTACATGG CAGGAAGATGGGCCCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTC TCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC

WI-7619k	90 C G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCC[G]CTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTGTCTCTCCCTTTTCCATCTTTTCCCT CTCTCGCTTTCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619j	206 T G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTGTCTCTCCCTTTTCCATCTTTTCCCTCTCT CGCT[G]TCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619i	106 C G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTGTCTCTCCCTTTTCCATCTTTTCCCT CTCTCGCTTTCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619h	150 T C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTGTCTCTCCCTTTTCCATCTTTTCCCTCTCT TCTCGCTTTCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619g	228 A G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTGTCTCTCCCTTTTCCATCTTTTCCCTCTCT CGCTTTCTTCTTACACAGAAACAT[G]CACATACCGAGAAACCTATTTC
WI-7619f	237 G C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTGTCTCTCCCTTTTCCATCTTTTCCCTCTCT CGCTTTCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619e	99 C T ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG TGGCAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTGTCTCTCCCTTTTCCATCTTTTCCCTCTCT TCTCGCTTTCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619d	189 T A ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTGTCTCTCCCTTTTCCATCTTTTCCCTCTCT TCTCGCTTTCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC

WI-7619c	90 C ---	---	ACAAGGGGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCC[C/G]CTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTCCATCTTTTCCCT CTCTCGCTTTCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619b	206 T G ---	---	ACAAGGGGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTCCATCTTTTCCCTCTCT CGCT[G]TCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619	189 T A ---	---	ACAAGGGGACTTGAAGAGGACGCAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTCCATCTTTTCCCTCTCT TCTCGCTTTCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7626d	105 A G ---	---	CCTTGTATGTGGAAGTATACCTGGCTTTTAAAATATATGTATTTAAAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGTCTGGC[G]GTTAAACCCACATCATGGACCAAAATGTG CCATACTAATGATGAGCATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCAATTTCCCTTTGGACTGTTCA
WI-7626c	155 C T ---	---	CCTTGTATGTGGAAGTATACCTGGCTTTTAAAATATATGTATTTAAAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGTCTGGCATTAAACCCACATCATGGACCAAAATGTG TACTAATGATGAGCATTTAGC[T]ACAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCAATTTCCCTTTGGACTGTTCA
WI-7626b	28 T A ---	---	CCTTGTATGTGGAAGTATACCTGGCTTTTAAAATATATGTATTTAAAAACAAAAAGCAACAGTAA TAATCTATGTGTTCTGTAAACAAATGGGATCTGTCTGGCATTAAACCCACATCATGGACCAAAATGTG CCATACTAATGATGAGCATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCAATTTCCCTTTGGACTGTTCA
WI-7626	144 T C ---	---	CCTTGTATGTGGAAGTATACCTGGCTTTTAAAATATATGTATTTAAAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGTCTGGCATTAAACCCACATCATGGACCAAAATGTG TACTAATGATGAGCATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCAATTTCCCTTTGGACTGTTCA
WI-7689c	134 A G ---	---	TCCCATAAACCGCTGATTCAGGGTCTCTGTGCTGCCGCCACCCAGATGGGGGAAAGCAGAGTGGGC TTCCAGTGGCTGCTGCCAGGCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTCCTAA[A] /G]TAAGGGCAGAGTCACACTGGGCAGCTGATACAAATTCAGACTGTGTAAAAAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTATTAGAATTCATATGAC

WI-7689b	134	A G ---	---	---	TCCATAACCGCTGATTCAGGGTCTCTGCTGCGGCCCCACCCAGATGGGGAAAGCACAGGTGGGC TTCCAGTGGCTGCTGCCAGGCCAGACCTTCTAGGACGCCACCAAGGTTGTCCTAAAI/A /GJTAAGGGCAGAGTCACACTGGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTATTAGAAATTCATAIGAC
WI-7689	121	G A ---	---	---	TCCATAACCGCTGATTCAGGGTCTCTGCTGCGGCCCCACCCAGATGGGGAAAGCACAGGTGGGC TTCCAGTGGCTGCTGCCAGGCCAGACCTTCTAGGACGCCACCAAGGTTGTCCTAA AATAAGGGCAGAGTCACACTGGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTATTAGAAATTCATAIGAC
WI-7690	45	G A ---	---	---	TGGAGAACATTCAATCTTGCCGTCACCTATTCATCAATGAAGATTAGJ/AJCACTGAGATCCAGAGAGG CTGGATGACTTCTCAAGTTCCAGCATGGTAGTGGCAAGAGAGTCCAGAGTCTGGCCCTTGAT GCCAGCTCAGTGCCACAAAGCTCAGTAGGAGGATGTTCCAGTGGATGAGGGCCACCAGGAAGCAC AGGTCCAAGGCTGGTCCACACTTATCAGCAGCAACAACCTGTCAGTTCATCC
WI-7703b	164	T C ---	---	---	ACAGAAAAGTTGAATTTACATGGCTGGAGCTAGAATTTGATATGTGAACAGTTGTGTTGAAGCAC AGTGATCAAGTTATTTTAAATTTGGTTTTCACATTGGAACAAGTCAGTCATTGATATGATTCAAA TGCTATAAACCAAACTGATGTAAGTAAAT/CJGGTCTCTCAGTTGTTTATTTAACCTCTAAATCT TTCAATTTAGGGGTAGCATTTGTGTTGAAGAGGTTTAAAGCTTCCATTGT
WI-7703	156	T C ---	---	---	ACAGAAAAGTTGAATTTACATGGCTGGAGCTAGAATTTGATATGTGAACAGTTGTGTTGAAGCAC AGTGATCAAGTTATTTTAAATTTGGTTTTCACATTGGAACAAGTCAGTCATTGATATGATTCAAA TGCTATAAACCAAACTGATGTT/CJAGTAAATGGTCTCAGTTGTTTATTTAACCTCTAAATCT TTCAATTTAGGGGTAGCATTTGTGTTGAAGAGGTTTAAAGCTTCCATTGT
WI-7743e	106	C A ---	---	---	TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCAGTGGAGCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC/CJ/CCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAAATCTGTACCTCAGTGGGTCTGGGGTCTCGAGCCTCATCCGAGGCGAGGTCAGGA GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743d	275	C T ---	---	---	TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCAGTGGAGCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC/CJ/CCAGGAGTCCCTGGTAATAAGTACT TACAGAAATCTGTACCTCAGTGGGTCTGGGGTCTGGAGCCTCATCCGAGGCGAGGTCAGGAGAG GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAACG
WI-7743e	106	C A ---	---	---	TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCAGTGGAGCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC/CJ/CCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAAATCTGTACCTCAGTGGGTCTGGGGTCTGGAGCCTCATCCGAGGCGAGGTCAGGA GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC

WI-7743d	275	C T	---	TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTCACTGGGGTCTCGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAAG
WI-7743e	106	C A	---	TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG GTGTACAGAAATTCGTACCTCACTGGGGTCTCGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAAG
WI-7743d	275	C T	---	TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTCACTGGGGTCTCGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAAG
WI-7743c	106	C A	---	TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG GTGTACAGAAATTCGTACCTCACTGGGGTCTCGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743b	275	C T	---	TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTCACTGGGGTCTCGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAAG
WI-7743	106	C A	---	TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG GTGTACAGAAATTCGTACCTCACTGGGGTCTCGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743	275	C T	---	TGACATTTATTCAAAGTTAAAGCAAACACTTACAGAAATTAAGAGAGGTATCTGTTTAACATTTCC TCAGTCAAGTTCAGAGTCTTCAGAGACTTCGTAATTAAGGAACAGAGTGAGAGACATCATCAAGTG GAGAGAAATC(ja/g)TAGTTTAAACTGCATTATAAATTTTATAACAGAAATTAAGTAGATTTTAAAAA GATAAAATGTGTAATTTTGTTTATATTTTCCCATTTTGGACTGTAACTGACTGCC
WI-7758	144	A G	---	

WI-7765b	126 G C ---	---	ACAGGGCCTTTGGCAGGTGCAGCCCCCAGCTGCCTTTGACCTGCCTCCCTTCATGCATGGAAATCCCT TCATCTGGAACCATCAGAAACACCCTCACACTGGGACTTGCAAAAGGTCAGTATGG[G/C]TAGG GAAACATTCCATCCTTGAGTCAAAAATCTCAATCTCCCTATCTTGCCACCCCTCATGCTGTGTG ACTCAAAACCAATCACTGAACCTTTGCTGAGCCTGTAATAAAAGGTCGGA
WI-7773b	237 C G ---	---	TTAATTTACTGATCCAGCAAGACCAAAATCATTTGATCAGATTATTTTAAGTTTTATCCGTAGTTTT GATAAAAGATTTTCTATTCCTTTGGTTCTGTGAGAACCTAATAAGTGTACTTTGCCATTAAAGGCA GACTAGGGTTTCATGCTTTTACCCTTTNNNNNNNNNTGTAAAGTCTAGTTACCTACTTTTCTTT GATTTTCGACGTTTGACTAGCCATCTCAAGCA[C/G]TTTCGACGTTTGA
WI-7774b	170 T C ---	---	TGCAACCTCTTTTCGTGATGGGAGCCTGCTGGTCAGCACTCCAGTAGCGAGAGACGGACCCAGAAAT CAGATCCCAGCTTCGGCATTTGATCAGACCAACAGTGTCTCCCGGGAGGAAACACTTTTTTAA TTACCCCTTTGCAGGACCACTTTAATCTGTTT[C/J]ATACCTTGCTTATTAATGAGCGACTTAAA ATGATTGAAAATAATGCTGTCTTTAGTAGCAAGTAAATGTCCTTGC
WI-7785c	165 G ---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGTCTGTAATACTGTAATGCATTGGAATAAACTGTCTCCCTCATGCTATGAAACTGC ACATTGGTCATTGTGAATANNNNNNNNNGCCAAAGGCTAATCCAATTATTATTCACATTTACCA TAATTTATTTTGCCATTGATGATTTATTTGTAAATGATCTTGTGTGCTGC
WI-7785b	165 G ---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGTCTGTAATACTGTAATGCATTGGAATAAACTGTCTCCCTCATGCTATGAAACTGC ACATTGGTCATTGTGAATANNNNNNNNNGCCAAAGGCTAATCCAATTATTATTCACATTTACCA TAATTTATTTTGCCATTGATGATTTATTTGTAAATGATCTTGTGTGCTGC
WI-7785	156 - T ---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGTCTGTAATACTGTAATGCATTGGAATAAACTGTCTCCCTCATGCTATGAAACTGC ACATTGGTCATTGTGAATANNJ- /JNNNNNNNGCCAAAGGCTAATCCAATTATTATTCACATTTACCATAATTTATTTGTCCATTGA TGATTTATTTGTAAATGATCTTGGTG
WI-7789c	84 G A ---	---	TCTCCCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGGCACCATCTTACAGAGACTCTCCC TGACGGTGAATTTAA[G/A]TTTAGGGTCCCTAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGTCCCTTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT
WI-7789b	84 G A ---	---	TCTCCCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGGCACCATCTTACAGAGACTCTCCC TGACGGTGAATTTAA[G/A]TTTAGGGTCCCTAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGTCCCTTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT



WI-7789	73 GA ---			TCTCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGGACCACATCTTACAGAGACTCTCCC TGACG[G/A]TGGAAATTAAGTTTAGGGTCCCTAAAGCAATTTGACACACAGTTGTTGAATGACTGAC CCAAAATGTGAATGAAGCTAATGTGAATGTAGTGAAGCTCCCTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT
WI-7790b	190 CT ---			AATTGTCAGTCACCTTCTCAAAACCCTTACAGTCTTCTCAAGGTTACTCTTCATGAGATTCAATCCATT TACTAATAGTATTTTTGGTGGACTAGGCTTGCCCTATGTGCTTATGTAGCTTTTACTTTTATGG TGTGATTAATGGTGATCAAGGTAGGAAAAGTTGTGTTCTATTTCTTGAACCTC[G/T]TCTATACTTT AAGTACTCTATTTTAAACACTATCTGCAAACTCAGGACACTTTAAG
WI-7790	190 CT ---			AATTGTCAGTCACCTTCTCAAAACCCTTACAGTCTTCTCAAGGTTACTCTTCATGAGATTCAATCCATT TACTAATAGTATTTTTGGTGGACTAGGCTTGCCCTATGTGCTTATGTAGCTTTTACTTTTATGG TGTGATTAATGGTGATCAAGGTAGGAAAAGTTGTGTTCTATTTCTTGAACCTC[G/T]TCTATACTTT AAGTACTCTATTTTAAACACTATCTGCAAACTCAGGACACTTTAAG
WI-7795b	81 CA ---			CAGATGTTCTGGTAAACTGATTGCTGGCAACAACAGATTCTCTGGCTCATATTTCTTTCTTCAT CTTGATGATGAT[C/A]GTGTCATCATCAAGAATTTAATGATTAATAGCATGCCCTTCTCTCTCTCT TAATAAGCCACATATAAATGATCTTTCTTCCAGAAAAATCTCCTTGAGGAAAAATGTCCAAAA TAAGATGAATCACTTAATACCGTATCTCTAAATTTGAAATATAATCTG
WI-7795	81 CA ---			CAGATGTTCTGGTAAACTGATTGCTGGCAACAACAGATTCTCTGGCTCATATTTCTTTCTTCAT CTTGATGATGAT[C/A]GTGTCATCATCAAGAATTTAATGATTAATAGCATGCCCTTCTCTCTCTCT TAATAAGCCACATATAAATGATCTTTCTTCCAGAAAAATCTCCTTGAGGAAAAATGTCCAAAA TAAGATGAATCACTTAATACCGTATCTCTAAATTTGAAATATAATCTG
WI-7814c	41 GA ---			TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCC[G/A]TTTCATTTTAGTCATGTGACCACCTC TGCTTTGTTTCCACAGCTGCAAGTTGAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAACTTTAGAGAAGTATACATAAGTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATATTGACTTGATATTTTAAGAAATAACAGAA
WI-7814b	41 GA ---			TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCC[G/A]TTTCATTTAGTCATGTGACCACCTC TGCTTTGTTTCCACAGCTGCAAGTTGAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAACTTTAGAGAAGTATACATAAGTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATATTGACTTGATATTTTAAGAAATAACAGAA
WI-7814	28 GA ---			TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCC[G/A]TTTCATTTAGTCATGTGACCACCTC TGCTTTGTTTCCACAGCTGCAAGTTGAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAACTTTAGAGAAGTATACATAAGTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATATTGACTTGATATTTTAAGAAATAACAGAA

WI-7830d	150 C T ---			GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGAACG ATCCATAACTTTAGT[C/T]TTAATGTACACATTGCATTTTGATAAAATTAATTTGTTGTTCCCTTTG AGTTGATCGTTGTTGTTTGGCTGCACITTTTACTTTTTGCGGTGTTGA
WI-7830c	54 G A ---			GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTGCATTTTGATAAAATTAATTTGTTGTTCCCTTTG AGTTGATCGTTGTTGTTTGGCTGCACITTTTACTTTTTGCGGTGTTGA
WI-7830b	134 G A ---			GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGAAC[ G/A]ATCCATAACTTTAGTCTTAATGTACACATTGCATTTTGATAAAATTAATTTGTTGTTCCCTTTG AGTTGATCGTTGTTGTTTGGCTGCACITTTTACTTTTTGCGGTGTTGA
WI-7830	44 A G ---			GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTGCATTTTGATAAAATTAATTTGTTGTTCCCTTTG AGTTGATCGTTGTTGTTTGGCTGCACITTTTACTTTTTGCGGTGTTGA
WI-7865e	25 C T ---			CCACTTCCTATCTGATTTTCCCAG[C/T]AATGAGGCGAGGCAATTCAGTCTCCACAAAACATCTA GCCATCTAAATGGAGAGATGAATCAITTCACCTATACAAACAGCTAGCTATTAGAGGGTGGTGG GGTATGCTACTCATAAGATTTGAGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865d	191 C T ---			CCACTTCCTATCTGATTTTCCCAG[C/T]AATGAGGCGAGGCAATTCAGTCTCCACAAAACATCTA GCCATCTAAATGGAGAGATGAATCAITTCACCTATACAAACAGCTAGCTATTAGAGGGTGGTGG GGTATGCTACTCATAAGATTTGAGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865c	25 C T ---			CCACTTCCTATCTGATTTTCCCAG[C/T]AATGAGGCGAGGCAATTCAGTCTCCACAAAACATCTA ATCTAAATGGAGAGATGAATCAITTCACCTATACAAACAGCTAGCTATTAGAGGGTGGTGG GGTATGCTACTCATAAGATTTGAGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865b	191 C T ---			CCACTTCCTATCTGATTTTCCCAG[C/T]AATGAGGCGAGGCAATTCAGTCTCCACAAAACATCTA ATCTAAATGGAGAGATGAATCAITTCACCTATACAAACAGCTAGCTATTAGAGGGTGGTGG ATGCTACTCATAAGATTTGAGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAA

WI-7865	25 C T ---			CCACTTCCTATCTGATTTTCCAG[C/T]AAATGAGGCGAGCAATCTAGTCTCCACAAAACATCTA GCCATCTAAATGGAGAGATGAATCATCTACCTATACAAACAAGCTAGCTATTAGAGGGTGGTGG GGTATGCTACTATAAGATTCAGGGTGCTTCCAACTGAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAGGAAAGTGCTATTCACCCAGTAAACCCAAA
WI-7865	191 C T ---			CCACTTCCTATCTGATTTTCCAGGAATGAGGAGGCAATCTAGTCTCCACAAAACATCTAGCC ATCTAAATGGAGAGATGAATCATCTACCTATACAAACAAGCTAGCTATTAGAGGGTGGTGGGGT ATGCTACTCATAAGATTCAGGGTGCTTCCAACTGAATCTCAATGTTCTCAGTA[C/T]GAAAAAC CTGAAATCACATGCCTATGTAGGAAAGTGCTATTCACCCAGTAAACCCAAA
WI-7867c	92 A C ---			TTCAAACACCTGTCTTCCACCTCCACCATCTGTGCAATCACTTACCCCTCAGCCTCAGTAGTCCCC CTAACAAATACCTGTCAAGAGG[A/C]GAGTGCAGCTCAGGTGATTAAATGTGGTTTAAATATGGC CTGTTGAGTTTAAATGTTTAAATGTTGATTTCTTTAAGTAACCATTTCTGTTCTTGCTATAAATCTATGT CTATATGCTATGCTTAAATTTGGATGATGAAGGCAACTTGGATTTAAGG
WI-7867b	92 A C ---			TTCAAACACCTGTCTTCCACCTCCACCATCTGTGCAATCACTTACCCCTCAGCCTCAGTAGTCCCC CTAACAAATACCTGTCAAGAGG[A/C]GAGTGCAGCTCAGGTGATTAAATGTGGTTTAAATATGGC CTGTTGAGTTTAAATGTTTAAATGTTGATTTCTTTAAGTAACCATTTCTGTTCTTGCTATAAATCTATGT CTATATGCTATGCTTAAATTTGGATGATGAAGGCAACTTGGATTTAAGG
WI-7868c	173 C T ---			TTGATCGATCTTTCCACCTGTCACTCAACGTGGTCCCTAGAACAGAGGCTTAAACCCGGCTTT CACCCAACTGTCCCTGTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACACAAT CAATTAATATTCCTGTCTTACCCCTATTCAAGCA[C/T]TAGAGGCCAGAAAAATGGCAAAATTAT CACTAACAGGCTTTGACTCAGGTTCCAGTAGTTCATTTCTAATGCCTAGAT
WI-7868b	173 C T ---			TTGATCGATCTTTCCACCTGTCACTCAACGTGGTCCCTAGAACAGAGGCTTAAACCCGGCTTT CACCCAACTGTCCCTGTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACACAAT CAATTAATATTCCTGTCTTACCCCTATTCAAGCA[C/T]TAGAGGCCAGAAAAATGGCAAAATTAT CACTAACAGGCTTTGACTCAGGTTCCAGTAGTTCATTTCTAATGCCTAGAT
WI-7868	66 T C ---			TTGATCGATCTTTCCACCTGTCACTCAACGTGGTCCCTAGAACAGAGGCTTAAACCCGGCTTT /C]TCAACCAACCTGTCCCTGTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACAC AATCAATTAATATTCCTGTCTTACCCCTATTCAAGCAAC TAGAGGCCAGAAAAATGGCAAAATTAT CACTAACAGGCTTTGACTCAGGTTCCAGTAGTTCATTTCTAATGCCTAGAT
WI-7870b	85 T C ---			ATCTTTGCTCCCTGCAAGAAATCAGCCATAAGAAAGCACTATTAACTCTGCAGTGATTAGAAGGG GTGGGGTGGGGGAATCC[C/T]C]ATTTATCAGACTCTGTAATGAATATAAATGTTTACTCAGAGGA GCTGCAAAATTCCTGCAAAAATGAAATCCCAATGAGCACTAGAAATTTAAACATCATTTACTGCCAT CTTTATCATGAAGCACATCAATTACAAGCTGTAGACCACCTAATATCAATTTG

WI-7870	76 C T ---	---	ATCTTTGCTCCCTGCAAGAAATCAGCCATAAGAAAGCACTATTAACTACTCTGCAGTGATTAGAAGGG GTGGGTGG[C/T]GGGAATCCTATTATCAGACTCTGTAAITGAATATAAATGTTTACTCAGAGGAG CTGCAAAATTGCCTGCAAAATGAAATCCAATGAGCACTAGATAATTTAAACATCATTAAGCCATC TTTATCATGAAGCACATCAATTACAAGCTGTAGACCACCTAATATCAATTTG
WI-7889c	54 C ---	---	TTAGTCTCATGCCACTCCCCAGGAGCAGCTGGCACTGACAGCCTGGGGGGCGCTCTCCCCCTG CAGCCGTGCAGGACTCTAGCTCATGAGTGGAAGTCACTACAGGACTGGGCCGGCCAGGGCCTCT GGCTTCCCTGCCCAATCCTCCCTGGAGAAGGACATGGGAATGAATTGAAATGGGGCGCTGGACACC TACAGCAGCAGCATGCTCCCTCCAAGGCTGCTTCTCCAGAGCACAAGAAG
WI-7889b	54 C ---	---	TTAGTCTCATGCCACTCCCCAGGAGCAGCTGGCACTGACAGCCTGGGGGGCGCTCTCCCCCTG CAGCCGTGCAGGACTCTAGCTCATGAGTGGAAGTCACTACAGGACTGGGCCGGCCAGGGCCTCT GGCTTCCCTGCCCAATCCTCCCTGGAGAAGGACATGGGAATGAATTGAAATGGGGCGCTGGACACC TACAGCAGCAGCATGCTCCCTCCAAGGCTGCTTCTCCAGAGCACAAGAAG
WI-7894c	142 A G ---	---	AGCCACCCCCAAATATAACTGTTATCCAGAAGCTGTTATGTCCTGTTCCATACATGTTTTGTACT TTTACTATATCTACATACATCAATTAACCTATGTCCTATTGTTTGTGAATTTATATTGCGTATAC ATTATC[A/G]TATGTAAAAATTGCAATTTTTTATTGAAAAATTATGTTCTTGAGATTTATCCACATTG AAACATGGAGCTCTAAATCGTTAATTTAACCGCTATAGAGTATCCATA
WI-7894b	142 A G ---	---	AGCCACCCCCAAATATAACTGTTATCCAGAAGCTGTTATGTCCTGTTCCATACATGTTTTGTACT TTTACTATATCTACATACATCAATTAACCTATGTCCTATTGTTTGTGAATTTATATTGCGTATAC ATTATC[A/G]TATGTAAAAATTGCAATTTTTTATTGAAAAATTATGTTCTTGAGATTTATCCACATTG AAACATGGAGCTCTAAATCGTTAATTTAACCGCTATAGAGTATCCATA
WI-7900e	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACAGTGATTAAAGTTGATCAAGCCATGGTGACACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCCTCAGATTTGAACCAAGTGA TATGATGATTTCTGAGCTAAAACCTCAACTATAGAAGACATTAAAGAAATC
WI-7900d	128 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACAGTGATTAAAGTTGATCAAGCCATGGTGACACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCCTCAGATTTGAACCAAGTGA TATGATGATTTCTGAGCTAAAACCTCAACTATAGAAGACATTAAAGAAATC
WI-7900e	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACAGTGATTAAAGTTGATCAAGCCATGGTGACACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCCTCAGATTTGAACCAAGTGA TATGATGATTTCTGAGCTAAAACCTCAACTATAGAAGACATTAAAGAAATC

WI-7900d	128 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGAIC/7JACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGATTTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900e	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG/C7JCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGATTTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900d	128 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG/C7JCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGAIC/7JACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGATTTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900c	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG/C7JCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGATTTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900b	128 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGAIC/7JACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGATTTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG/C7JCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGATTTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7901c	33 C T ---	---	AGACTTAGGTACAATTGCTCCCTTTTATATA/C7JAGACACACACAGGACACATATATTAACAG ATTGTTTCATCATTTGCATCTATTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGAC CCTTTTTAAACAACCTCCAGGCCCTTGGTTCGGGTGCTGGGTATTTGGGCGAGCGCCGTGGTCTGT CACTCAGTCGCTCTGCATGCTCTCTGTCATACAGACAGGTAACCTAGTTCT
WI-7901b	33 C T ---	---	AGACTTAGGTACAATTGCTCCCTTTTATATA/C7JAGACACACACAGGACACATATATTAACAG ATTGTTTCATCATTTGCATCTATTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGAC CCTTTTTAAACAACCTCCAGGCCCTTGGTTCGGGTGCTGGGTATTTGGGCGAGCGCCGTGGTCTGT CACTCAGTCGCTCTGCATGCTCTCTGTCATACAGACAGGTAACCTAGTTCT

WI-7901	33 C T ---	---	AGAC TTAGGTACAATTGCTCCCTTTTATATAC/TJAGACACACAGGACACATATATTAACAG ATTGTTTCATCATTCATCTATTTCCATATAGTCATCAAGAGACCACTTTTATAAACATGGTAAGAC CCTTTTAAACAAACTCCAGGCCCTTGTTGGGGTGGCTGGTATTGGGGCAGCGCCGCTGGTCTGT CACTCAGTCGCTCGCATGCTCTCTGTCTATACAGACAGGTAACCTAGTTCT
WI-7901	271 T G ---	---	AGAC TTAGGTACAATTGCTCCCTTTTATATACAGACACACAGGACACATATATTAACAGATT GTTTCATCATTCATCTATTTCCATATAGTCATCAAGAGACCACTTTTATAAACATGGTAAGACCCCT TTTTAAACAAACTCCAGGCCCTTGTTGGGGTGGCTGGTATTGGGGCAGCGCCGCTGGTCTGTAC TCAGTCGCTCGCATGCTCTCTGTCTATACAGACAGGTAACCTAGTTCTGTGT
WI-7926c	150 C A ---	---	CATTCCGCATCTGTCAACCCAGGACAGAAAGCATGGACAAGGGATGAGCTTTACAAAAGATGACACT TTGGAGATCAGAAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCCTTCATT TACAATGCAATACCTTA/C/A/JATTTTAACTCTTTGTAGGAGAAAAAGCAACTGTATAAATGAATGTA GAGTGACTTTCTGCAATATTTGCAACCTATATCAGAGAAATACACTGTGGGAA
WI-7926b	28 A T ---	---	CATTCCGCATCTGTCAACCCAGGACAGAA/JTJGCTGGACAAGGGATGAGCTTTACAAAAGATGATGC ACTTTGGAGATCAGAAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCCTTC ATTTACAATGCAATACCTTA/C/A/JATTTTAACTCTTTGTAGGAGAAAAAGCAACTGTATAAATGAATGTA GAGTGACTTTCTGCAATATTTGCAACCTATATCAGAGAAATACACTGTGGGAA
WI-7926	150 C A ---	---	CATTCCGCATCTGTCAACCCAGGACAGAAAGCATGGACAAGGGATGAGCTTTACAAAAGATGACACT TTGGAGATCAGAAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCCTTCATT TACAATGCAATACCTTA/C/A/JATTTTAACTCTTTGTAGGAGAAAAAGCAACTGTATAAATGAATGTA GAGTGACTTTCTGCAATATTTGCAACCTATATCAGAGAAATACACTGTGGGAA
WI-7947b	203 G T ---	---	AAGAGCCAGCAGGTCAAAAAGGCCAACACACACCATAAGCAGCCAGCCACAAAGGCCAGGTCCTGT GCTATCACAGGGTCACCTCTTTACAGTTAGAAACACCCAGCCGAGGCCACAGAAATCCCATCCCTTTCC TGAGTCATGGCCTCAAAAATCAGGGCCACCATTTGCTCAATTCAAATCCATAGATTTGGAAGCCACA GA/G/TJCTCTCCCTGGAGCAGCAGACTATGGCAGCCAGTGTGCCACCTG
WI-7947	203 G T ---	---	AAGAGCCAGCAGGTCAAAAAGGCCAACACACACCATAAGCAGCCAGCCACAAAGGCCAGGTCCTGT GCTATCACAGGGTCACCTCTTTACAGTTAGAAACACCCAGCCGAGGCCACAGAAATCCCATCCCTTTCC TGAGTCATGGCCTCAAAAATCAGGGCCACCATTTGCTCAATTCAAATCCATAGATTTGGAAGCCACA GA/G/TJCTCTCCCTGGAGCAGCAGACTATGGCAGCCAGTGTGCCACCTG
WI-7963b	145 T C ---	---	CATGTGTCATGAAGAGCTAATTTAAAAAGCAAAGTAAGACTAATTTTAAAAATAAAATGCC ACAAATTTCAATTTCTCCCTTCTAAGTATTACAATGGAGTTATTCTCTGCCCTAAAAAGTGAAGAAAT TGAGTGAATGA/T/C/JAATTTTGTAATTTAGGATAAGATCCCAAGTTATTTCCCAACTCTTTGTTCC CCATAAGTTAGGCATGAGGAGGAGCACTCATTAAAGGCAGAGACGGAAAA

WI-7972c	268 T G ---			GGAGTTCTGGTTCCTACTGGGGGCAACCCCTGGTGACCAGCACCATCTCTCCTCCTCTTTCACAGTTCTCT CCTCTCCCCCGCTGCAGCCATTCTGTGCCATGAGATGATGCCATGGGTCTCAGCAGGGGAGG GTAGACGGAGAAAGGAAGGCAGCATGCGGGCTTCCTCCTGGTGTGGAAGAGCTCCTTGATATCCT CTTGAGTGAAGCTGGGAGAACC AAAAGAGGCTATGTGAGCACAAAAGTA
WI-7972b	268 T G ---			GGAGTTCTGGTTCCTACTGGGGGCAACCCCTGGTGACCAGCACCATCTCTCCTCCTCTTTCACAGTTCTCT CCTCTCCCCCGCTGCAGCCATTCTGTGCCATGAGATGATGCCATGGGTCTCAGCAGGGGAGG GTAGACGGAGAAAGGAAGGCAGCATGCGGGCTTCCTCCTGGTGTGGAAGAGCTCCTTGATATCCT CTTGAGTGAAGCTGGGAGAACC AAAAGAGGCTATGTGAGCACAAAAGTA
WI-7972	268 T G ---			GGAGTTCTGGTTCCTACTGGGGGCAACCCCTGGTGACCAGCACCATCTCTCCTCCTCTTTCACAGTTCTCT CCTCTCCCCCGCTGCAGCCATTCTGTGCCATGAGATGATGCCATGGGTCTCAGCAGGGGAGG GTAGACGGAGAAAGGAAGGCAGCATGCGGGCTTCCTCCTGGTGTGGAAGAGCTCCTTGATATCCT CTTGAGTGAAGCTGGGAGAACC AAAAGAGGCTATGTGAGCACAAAAGTA
WI-7981	261 T G ---			AACCCCTGAAATCGGAAGGGACTTCCTCTTCTCTCCTCTTCCCCTGTTTTAAATTATAAGATGTCAT CCCCTTGTTCAGAGACAGACCCCTGGCTTTTGGCTGGCAGAGAGGACCCCACTGGACTGGGTTTTG TCTCTGCATCTCAATTGTAGAGCTTGGTGGCTGAGCTTGGCCCTATTAAATATAAGATTCCAAATA AGGATTTGTTACATGCATCAATCAACCATCCCATTTGGTTCTCTAAAACAT
WI-7992b	62 A G ---			GAGCTTCCACAGTGAAGATGGAGAAGGTGAACCTGCTTTGAATATNCCAGATTTGTTGGTC[A/G]T GCGTATGGCAGTGAGCAGGTATGTGTTTCTTCTCACGAAAAATTAATGCTATCAAGAGCAAAC TATGAACATTATATTCAAGATGCTCCAGAGTGAAGATGCCGAGGATGAACCTTGCAATTGAACAATCC AGATGTGTGAGATCATGTGTATTGCAGTGGGCAGGTATTGCTTTTGCTTG
WI-7992	62 A G ---			GAGCTTCCACAGTGAAGATGGAGAAGGTGAACCTGCTTTGAATATNCCAGATTTGTTGGTC[A/G]T GCGTATGGCAGTGAGCAGGTATGTGTTTCTTCTCACGAAAAATTAATGCTATCAAGAGCAAAC TATGAACATTATATTCAAGATGCTCCAGAGTGAAGATGCCGAGGATGAACCTTGCAATTGAACAATCC AGATGTGTGAGATCATGTGTATTGCAGTGGGCAGGTATTGCTTTTGCTTG
WI-8004b	183 C T ---			ACTAAGAAATATTTATTTGGTGGCCTATAAACTCTGTTCACTCTTACCTTGCTAATGATTATTTT CATTAAAGTAAATGATCATCTTTGGGAGGCAATTTATAAAAACATATTTAGGAGAAAAATTTCTTTGA TTTATGCTATAAGGTAAATGTGCAATAATTTCTTGCCTATGTGAATG[C/T]TAGGTTTCCACTTTGAG AGAAATCTCTCAATCTAATAATAAGACCAAGGGGCCAGAAACACTAAGATA
WI-8021c	57 C T ---			ACAAATCTCAGAAGGACTGTGCAAGTCAATGAGTCGCTTGTAATTCATCTCGAAA[C/T]GATCCC ACGCTTAGAACCTTCACCACAAGGAGTTTTCTTGATGATGATCTCAAAGCTTTGGTAGGCATTCGA ACTGGTCTTTCACCTTTGAGATCTTTTCTTTTGGCCCTCTTATCAAGTCAGCACACACCTTTTCCAAG GATTTACGTTGCGGCTTGTAGGGGTGATTCGAATTCGGTGAATTGCCA

WI-8021b	57 C T ---	---	---	ACAACTCAGAGGACTGTGCAAGTCAATGAGTCGCTTGTAATTCATCTGGAAAC[CT]GATCCC ACGTCCTTAGAACCTTCAACCAAGGAGTTTCTTGTTAGTGAATCTCAAAGTCTGGTAGGCATTCGA ACTGGTCCCTTTCACITTTGAGATCTTTCTTTGCGCCTCTTATCAAGTCAGCACACACCTTTTCCAAG GATTTACGTTGCGGCTTTAGGGGTGATTCGAATTCGGTGAATTGCCA
WI-8021	57 C T ---	---	---	ACAATCTCAGAGGACTGTGCAAGTCAATGAGTCGCTTGTAATTCATCTGGAAAC[CT]GATCCC ACGTCCTTAGAACCTTCAACCAAGGAGTTTCTTGTTAGTGAATCTCAAAGTCTGGTAGGCATTCGA ACTGGTCCCTTTCACITTTGAGATCTTTCTTTGCGCCTCTTATCAAGTCAGCACACACCTTTTCCAAG GATTTACGTTGCGGCTTTAGGGGTGATTCGAATTCGGTGAATTGCCA
WI-8024c	206 A G ---	---	---	CTGAAAATTTACTATGCTCTCCACAACAAGAGCTCCCATTTTCCACAGACACAGTCAATGTCAGTCA GCTTGATTTAGAGGACAGGGCAGAGGGATCCCAAGTGGCACTTCCCATGGGAAGACAGAAGAGAGT GGCCCCAGAGATGGAAGGACCCAGTGTCTATCACCACCAACCATTTTACGCCGCTTAGCCTCTAA TTCCC[AG]CTCTAGAACAGCTGGCCCTGGTCGTCAGTACACAAAGGAAAGAGC
WI-8024b	206 A G ---	---	---	CTGAAAATTTACTATGCTCTCCACAACAAGAGCTCCCATTTTCCACAGACACAGTCAATGTCAGTCA GCTTGATTTAGAGGACAGGGCAGAGGGATCCCAAGTGGCACTTCCCATGGGAAGACAGAAGAGAGT GGCCCCAGAGATGGAAGGACCCAGTGTCTATCACCACCAACCATTTTACGCCGCTTAGCCTCTAA TTCCC[AG]CTCTAGAACAGCTGGCCCTGGTCGTCAGTACACAAAGGAAAGAGC
WI-8077	167 A G ---	---	---	GAATGAGCCTTCTAGCGCGAGGGACCTGCTGCTGTTGTTGGCCTGCACATGCTTCTATGGAATGC TTTTTGCCAAAGCGGGGCACTGAGGACTAAGCTCTGANNNNNNNATCTGCCCAAACCTCTTCT AAGGAGTCTGGGGTGTATGCCCTACAAACC[AG]TAAATCTCATCAGATGGATTTTATTAAACGTT GTGATTGTGACTTACTTTCCAATCTGACTCTGGCATAACAAGGAAAAA
WI-8118f	114 G C ---	---	---	TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGATGACCACTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAACTGGCAATACAGAATGAGCTTGT[GC]TTTCTTAGCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTCTGATTTCCCTGCTCCTCTATTCCTTCT AAAAATCAGACTCATTGTGACCAGTAGCTTGAGGACTCAAGCTGAATGA
WI-8118e	40 A G ---	---	---	TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGATGACCACTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAACTGGCAATACAGAATGAGCTTGT[GC]TTTCTTAGCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTCTGATTTCCCTGCTCCTCTATTCCTTCT AAAAATCAGACTCATTGTGACCAGTAGCTTGAGGACTCAAGCTGAATGA
WI-8118d	118 T G ---	---	---	TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGATGACCACTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAACTGGCAATACAGAATGAGCTTGT[GC]TTTCTTAGCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTCTGATTTCCCTGCTCCTCTATTCCTTCT AAAAATCAGACTCATTGTGACCAGTAGCTTGAGGACTCAAGCTGAATGA



WI-8118c	44 C T ---	---	TCTAGGTTAATCAAAGCAATTTGCANITTTGGATTTTGAATGAIC/IJCACCTCCCTTGCTAAGGAAGC TATGTACTTCATGCTGTGGAACTGGCAATACAGAATGTAGCTTGTTGTTTCTAGCCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTTTCTGATTTCCCTGCTCCTTATCCTTCTCCT AAAAATCAGACTCATTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA
WI-8118b	88 T C ---	---	TCTAGGTTAATCAAAGCAATTTGCANITTTGGATTTTGAATGACCACTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAAC/IJCJGGCAATACAGAATGTAGCTTGTTGTTTCTTAGCCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTTTCTGATTTCCCTGCTCCTTATCCTTCTCCT AAAAATCAGACTCATTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA
WI-8171d	299 C T ---	---	TTTTCTCTCTCCGGGGGACCAAGGTACCTTCTGGGGCATACAACATGGCAGCGGCCCTCGGGAAG AGGGGTAGGAGGACCGAGCAGCATTTCTGTAGAGGAAGACAGGAAAGGAGACCCCTCTTGGCACACA TTTATGGAGGTTGTCCCTGAAGAGAGGGCAGGTGGGAGAGGTTCCCTGTTACTTTAAGAGAAGGC ACCAGTGGGCAAGAGCACAAATGAAGAGGATGATGATAAAAACAATCACGGCA
WI-8171c	46 A G ---	---	TTTTCTCTCTCCGGGGGACCAAGGTACCTTCTGGGGCATACAAC/IJGTGGCAGAGGCCCTCGGG AAGAGGGGTAGGAGGACCGAGCAGCATTTCTGTAGAGGAAGACAGGAAAGGAGACCCCTCTTGGCAC ACATTTATGGAGGTTGTCCCTGAAGAGAGGGCAGGTGGGAGAGGTTCCCTGTTACTTTAAGAGAA GGCACCAAGTGGGCAAGAGCACAAATGAAGAGGATGATGATAAAAACAATCAC
WI-8171a	46 A G ---	---	TTTTCTCTCTCCGGGGGACCAAGGTACCTTCTGGGGCATACAAC/IJGTGGCAGAGGCCCTCGGG AAGAGGGGTAGGAGGACCGAGCAGCATTTCTGTAGAGGAAGACAGGAAAGGAGACCCCTCTTGGCAC ACATTTATGGAGGTTGTCCCTGAAGAGAGGGCAGGTGGGAGAGGTTCCCTGTTACTTTAAGAGAA GGCACCAAGTGGGCAAGAGCACAAATGAAGAGGATGATGATAAAAACAATCAC
WI-8171b	298 T C ---	---	TTTTCTCTCTCCGGGGGACCAAGGTACCTTCTGGGGCATACAACATGGCAGCGGCCCTCGGGAAG AGGGGTAGGAGGACCGAGCAGCATTTCTGTAGAGGAAGACAGGAAAGGAGACCCCTCTTGGCACACA TTTATGGAGGTTGTCCCTGAAGAGAGGGCAGGTGGGAGAGGTTCCCTGTTACTTTAAGAGAAGGC ACCAGTGGGCAAGAGCACAAATGAAGAGGATGATGATAAAAACAATCACGGCA
WI-8314b	85 G C ---	---	GAGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGT TTCTCTATCTCTAAGGG/IJCJAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAGTCTCTGTAGTCTTATGATGATCTAGAAGAGCACTGTCCAATAGAACTTTC TGTGATGATGAAAAGATTCTACTCTGACCTATTCAATAGGGGTAACCACT
WI-8314	78 C G ---	---	GAGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGT TTCTCTATCTC/IJTAAGGGGAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAGTCTCTGTAGTCTTATGATGATCTAGAAGAGCACTGTCCAATAGAACTTTC TGTGATGATGAAAAGATTCTACTCTGACCTATTCAATAGGGGTAACCACT

WI-8321	178 G A ---	---	TTTTAAATATGCCCGTTTAGAGCAGACACAGTCACAATAAAAGTTAAAAAGTTACAATGTGTCCAG TGATATACCCAGGNAATCCATTCTTGGTACTTTCAAGAGCTGCTGTATATACTGAGTCTCTGAGAAG TCCCTTAGATAAATAGTGCACATTTTCAGTATGGTTCAGAAATG/AJAGTATCTTAGTATCTTTCTA TTTGTCTATGGTCTAGTTATCAACCTACTTTATTAGCTGAACGTGTGGC
WI-8321	178 G A ---	---	TTTTAAATATGCCCGTTTAGAGCAGACACAGTCACAATAAAAGTTAAAAAGTTACAATGTGTCCAG TGATATACCCAGGNAATCCATTCTTGGTACTTTCAAGAGCTGCTGTATATACTGAGTCTCTGAGAAG TCCCTTAGATAAATAGTGCACATTTTCAGTATGGTTCAGAAATG/AJAGTATCTTAGTATCTTTCTA TTTGTCTATGGTCTAGTTATCAACCTACTTTATTAGCTGAACGTGTGGC
WI-8332b	123 A C ---	---	TATGTACTACATTTTCAGTTACCCCGTGCCTCCAGAAATCGCATGTTGCTCCACCTGGGGCGGATATA AATTACCTCTAGATTGTCCAAAGCCAGTCTTTCCCTTCCCTGTGCAGCCTTAGA/CJACTAAGTAG CAGTACTGTTTGGTGTGTTTCTTCCCGAGCAATGCCTACTGCAGCTACTTAGTAACAACCTAG AGGTGGAGGGTNTCCGGGAAGCAGTTAGATGAGTTAAGTGTGATGCACA
WI-8332	114 A C ---	---	TATGTACTACATTTTCAGTTACCCCGTGCCTCCAGAAATCGCATGTTGCTCCACCTGGGGCGGATATA AATTACCTCTAGATTGTCCAAAGCCAGTCTTTCCCTTCCCTGTGC/CJGCCTTAGAAACCTAAGTAG CAGTACTGTTTGGTGTGTTTCTTCCCGAGCAATGCCTACTGCAGCTACTTAGTAACAACCTAG AGGTGGAGGGTNTCCGGGAAGCAGTTAGATGAGTTAAGTGTGATGCACA
WI-8378b	311 T C ---	---	TGCGGGCTTAACAGGAAGCATGACTGGGAGGCTCAGGAAGCTTATAATCATGGCAGAAGCGGAAGG GGAAGCAAGGACCTTCTTACATGGCAGCAGGAGAAAGAGAAAGAGAGAGTCTACACACTTTT AAACAACCCAGATCTCATGAGANTCCATCGGGAGACAGCACTAGGGGGATGGCACTAAACCATTAGA AACTGCCCCCATGATCCAATCACCTNTCACAGGGCCCCCTCTCCAACACGTGGGG
WI-8378	308 T C ---	---	TGCGGGCTTAACAGGAAGCATGACTGGGAGGCTCAGGAAGCTTATAATCATGGCAGAAGCGGAAGG GGAAGCAAGGACCTTCTTACATGGCAGCAGGAGAAAGAGAAAGAGAGTCTACACACTTTT AAACAACCCAGATCTCATGAGANTCCATCGGGAGACAGCACTAGGGGGATGGCACTAAACCATTAGA AACTGCCCCCATGATCCAATCACCTNTCACAGGGCCCCCTCTCCAACACGTGGGG
WI-8426	184 T G ---	---	TTAGCACATATTAGCATTAAGCCTCAAACGATACAGCAATATGTTAGATCTCTTGTGAAAAACAG TTGTTGTAGACTGTTAANNNNNNNNAATGTAACCTCCGACTTGTGCCTAATAGGATTTGACCNNTAA GAGGNTCTTTTGTGTGGANGGGTGGCTTGTGTAACCTCCATCTGTG/GJGCCTTGTAGCTGGTG AGGCTGGGAGTATGGANGNCCCGGGGCCCTTGGGNATGNATTCAGTGAG
WI-8450h	61 C A ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACT[C/A]CA TCTTCTATCTTAGTCCAAAGTTTAGTTTCAATCCCAATATACCAATTCATTGTTATTTAAGA AAAAACCTTCCCAGTTATTGTAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAAATATGAGCAGTACAGAGTCTTAATGCAATTCAT

WI-8450g	55	T C ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATTCACACTCCATCTCTCTATCTTAGTCCCAAGTTTAGTTTCAATCCCAATTATACCAATCCATTGTTATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450f	108	T A ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTTCTCTATCTTAGTCCCAAGTTTAGTTTCAATCCCAATTATACCAATCCATTGTTATTCJTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450e	125	T C ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTTCTCTATCTTAGTCCCAAGTTTAGTTTCAATCCCAATTATACCAATCCATTGTTATTCJTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450d	125	T C ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTTCTCTATCTTAGTCCCAAGTTTAGTTTCAATCCCAATTATACCAATCCATTGTTATTCJTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450c	108	T A ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTTCTCTATCTTAGTCCCAAGTTTAGTTTCAATCCCAATTATTCJTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450b	61	C A ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTTCACATCTCTCTCTATCTTAGTCCCAAGTTTAGTTTCAATCCCAATTATACCAATCCATTGTTATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450a	55	T C ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATTCACACTCCATCTCTCTATCTTAGTCCCAAGTTTAGTTTCAATCCCAATTATACCAATCCATTGTTATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8458b	60	A/G ---	---	CAAGGAAAGCTGCAGTCTTCATAAACTTTCAAAGAGTTTACAAAAATACGTATTTTTTAAGCTACAATTCAAGATTAGCATCCAAACCTACAAACATGATGATACATTCGTCACACCCATACACCTTCACACCTGGCTACAGCAATGTTGACTTACATCACCATCCATTGTTTATCTTGTAAGAACTTTATTGTGCACAGTGACATCCATTCGCGCAGACTTAATGTTTATAAAGCAGCTGAGCAGAGTTCTCA

WI-8461c	105 A T ---			CTTCCTCCTCCAAAAATCTACATGAATACCTTGAAGACAAATATAACTACAACCTTACAAATGCCAATTA GACAAAAGAGANTAAATGATATAATATAAATCATTTTTT[A/T]NNNNNNNNCCCTTGCTTATTACACAT TCAGGGAAGTCTAGCACCAAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAAAGAAAAANTCAAGGATTGCAAAAAGGGGG
WI-8461b	38 T C ---			CTTCCTCCTCCAAAAATCTACATGAATACCTTGAAGACAAAT[7C]ATAACTACAACCTTACAAATGCCAA TTAGACAAAGAGANTAAATGATATAATATAAATCATTTTTTNNNNNNNNCCCTTGCTTATTACACAT TCAGGGAAGTCTAGCACCAAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAAAGAAAAANTCAAGGATTGCAAAAAGGGGG
WI-8461	38 T C ---			CTTCCTCCTCCAAAAATCTACATGAATACCTTGAAGACAAATATAACTACAACCTTACAAATGCCAATTA GACAAAAGAGANTAAATGATATAATATAAATCATTTTTT[A/T]NNNNNNNNCCCTTGCTTATTACACAT TCAGGGAAGTCTAGCACCAAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAAAGAAAAANTCAAGGATTGCAAAAAGGGGG
WI-8461	105 A T ---			CTTCCTCCTCCAAAAATCTACATGAATACCTTGAAGACAAATATAACTACAACCTTACAAATGCCAATTA GACAAAAGAGANTAAATGATATAATATAAATCATTTTTT[A/T]NNNNNNNNCCCTTGCTTATTACACAT TCAGGGAAGTCTAGCACCAAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAAAGAAAAANTCAAGGATTGCAAAAAGGGGG
WI-9438	77 A G ---			AATAACATGTTATGAACAAGCTGTTACAAGTAGTAGGTAGATGACTTAATTTTGATAAAAAAAT TAAAAAGCAT[A/G]AACATGCATATAAAAAATTAGATTATGTACAAAAATACCAACAGTATTTACTTC TGCTCAGTAATTAATAATTCTCCCTTTGTTTGTCTTTTAAAAAACATTATTTCTGAAAAAATAA ATCAGAAAAACATGATCGTGGAGAAATTATTA
WI-9439b	101 C T ---			ACAGAAATTGACCTTTATTTGTTGTAAGCCTGTTTAACTTTTGATACAAAGTAACATTTTAGTA CAGAAAAATCCAGTCTGTCAGCTCAGTACCTGT[C/T]GTGCACACTGTACCATCTCAGTCCCACCTCT GCCTGTAACCTTAGAAAAACAGCCCTACCCCGAGGGTCTGCGAGTTAATACCTTGAGAATAGTCTA CAGTTTTTCATAGTTTGTCTGAGCTAGAAAAACTTGACCTGTAAACAAAG
WI-9439a	76 C T ---			ACAGAAATTGACCTTTATTTGTTGTAAGCCTGTTTAACTTTTGATACAAAGTAACATTTTAGTA CAGAAAAAT[C/T]CCAGTCTGTCAGCTCAGTACCTGTCTGTGCACACTGTACCATCTCAGTCCCACCTCT GCCTGTAACCTTAGAAAAACAGCCCTACCCCGAGGGTCTGCGAGTTAATACCTTGAGAATAGTCTA CAGTTTTTCATAGTTTGTCTGAGCTAGAAAAACTTGACCTGTAAACAAAG
WI-9446b	75 T C ---			GAAGGCTTGATTAAAGGGAGGNTTTATTTGATGTNAACCTTACCATTCCATAGACTATAAAGANCATTTA TAAAAAAAT[C/T]CCTCTAAAGNGACACATGCCCCAAATGACCANGNCATAGCAAAACCTTTTAAAT TACTCATCTTTTCATATGTGTGTTGTGNNCCCTACTNTTATCAGTGTGCTCTGCTTTTGTGCTACCTA TGNGAACTGCACACTATCTGTGGCAATATTGT

WI-9446	75 T C ---	---	GAAGGC TTGATTAAGGAGGNTTATTTGATGTAACCTACCATCCATAGACTATAAAGANCATTA TAAAAAAATG/CCTCTAAAGNGACACATGCCCAAATGACCANGNCATAAGCAAACCTTTTAAAT TACTCATCTTTTATATGTTGTTGTCCTACCTACCTGCTCTCTGCTCTTTGCTCTACCTA TGNGAACTGCACACTATCTGTGGCAATATGT
WI-9497b	185 A ---	---	ATTAATGTCAGGTTTCATGTTTACATTTCTTATATCAAGTACAATGGTATATATACCTTTTTT GAGATAATTTCTAGATCCAGGCTTCTCTAGATGTAAGTNCCTAAAGCTTATAGTTTACATTGA TATCTAGACATATATCTTAAACAGTCTCCAAATTTNCTTTAATTAATCAAAAGTATGTTAATGTCACCT GGAATCTACATGGAAAAGCCCAACAAATAACTAAAACTTGACTAATGAAG
WI-9497	185 A ---	---	ATTAATGTCAGGTTTCATGTTTACATTTCTTATATCAAGTACAATGGTATATATACCTTTTTT GAGATAATTTCTAGATCCAGGCTTCTCTAGATGTAAGTNCCTAAAGCTTATAGTTTACATTGA TATCTAGACATATATCTTAAACAGTCTCCAAATTTNCTTTAATTAATCAAAAGTATGTTAATGTCACCT GGAATCTACATGGAAAAGCCCAACAAATAACTAAAACTTGACTAATGAAG
WI-9523b	193 C A ---	---	GTGAAAAGTTTCTATTCATCCATCATACATAGATTGTGCTAAGGATCATTTTGGAAAGATGTG CAGCATTCAGAAAGTTGTATCTCATCATGCAGTCACTCAGCAGCATTTTATCTAAAAGTACGTGCACA GACTCAGACAAATTACAAACTATTCAGCCATGATCTATGGTGATTTCCACACATTTGTA[C/A]AGTG AAAGCTCTTCAGCTTGGAAACAACCTTGCAAGGCAGACTGCATGCACATATAT
WI-9523a	47 G A ---	---	GTGAAAAGTTTCTATTCATCCATCATACATAGATTGTGCTAAG[G/A]ATCATTTTGGAAAGAT GTGCAGCATTCAGAAAGTTGTATCTCATCATGCAGTCACTCAGCAGCATTTTATCTAAAAGTACGTGCA CAGACTCAGACAAATTACAAACTATTCAGCCATGATCTATGGTGATTTCCACACATTTGTACAGTGA AAGCTCTTCAGCTTGGAAACAACCTTGCAAGGCAGACTGCATGCACATATAT
WI-9554	202 T C ---	---	AAAAACACAAGTTTCATACATCACAAAAAACCTTCCATTATAACACAGAAGTGATTATACCAGAC AAGCATCAGTGATGATATCTGCTTCTGCTTCTAGTTGTTATGTAATGCTAGATAATGCAGCCCATG CAATACACCCAAAGAACACTAGAGTCTACACCCAAAGTACAATATGATAAAGCAGCCCTCTGCAAGTG GTT[C/G]CTGGATACCACTAAGAAAGTCTACTGCAGCCATGTTGGTTATGATTTT
WI-9555	97 G A ---	---	CCAAAAGCCAAACCATTCATATGTATGGATTTCTATAAACATTTATTGATCCCTTTTGGAGTAAGTAT AAATACCTTTTACATGGCTAACCTTCTAAC[G/A]CTTGAAAAATCAATTTCAAGGGACTCTTTTAAATCA GTTAAATAATCTGCTTTAGAAAGGCACAAATGATCATACTTCAGATTAAAAATACAGGTAAGTATTCAG GGNTAAATGGTACAAAAAAGGCTGTAACCTTTTCTTCTCACAATTGATCACA
WI-9625b	172 A T ---	---	TTGAACATTTAATGAATGACAAAGACATAACATCCCTCTGAAAAATCTGCAAGTAAATCAATCATTTT TAAACAAATAGCTACCATATATTTGTATCTNCTCTCTGGGAAAAACCTTTGGAAAAAACAACGCACA TAAGTATCATAAAGTGGGTTGTGGACAAGTACTCT[AT]GTTTACCAATTTTATATTGACATAA AGTAGCACAGACTAGTTATTTTCATTTAAAAAACAACACTGACAAATCTTTTC

WI-9625	172 A T ---	---	---	TTGAACATTTAATGAATGACAAAGACATAACATCCTCTGAAAAATCTGCAAGTAAATCAATCATTTT TAAACAATAGCTACCATATATTTGTATCTNCTCCTTGGGAAAAAATCTTGGAAAAAATCAACACGCACA TAAGTATCATAACTGAGGGTTGTGGACAAAGTTACTTCT[AT]GTGTTTACCAATTTTATATTGACATAA AGTAGCACAGACTAGTTATTTCAITTTAAAAAACACACTGACAAATCTTTTC
WI-9647	144 C T ---	---	---	TTTTCTGAGATTCAAAGAGCTACATTTTGGTTAGTGTATGTCTACTATACCTTTTTCATCCTTTCA ACATCTTTTGTACATTTTAGTGATGCTCTTGTAAACAGTGTATGCTAGACCTAAAAATCCAAAGCT TACAACCT[CT]GTCCCTTACCTGATACATTTATCCATTTACTTTTCACTTTGGATTTTAAAAATGTTA ACTTAATACGCTCTCTTCAGATGCTCCCTGCTTTTGTAGTTAATTGTTT
WI-9676n	114 A G ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCA[AG]GATGTGGCTTTCCTGCCC CCCATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676m	184 G T ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCG[CT]CATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676l	84 A C ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGAGG[ C/CT]CAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676k	202 C T ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGAGG[ C/CT]CAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676j	92 C T ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGCCCC CCCATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676i	173 T C ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT

WI-9676h	134	C A ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG C/AJATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTG AGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCAATTGTTGTTT
WI-9676g	202	C T ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG ATTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGAGG C/TJACGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCAATTGTTGTTT
WI-9676f	184	G T ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG ATTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCAATTGTTGTTT
WI-9676e	173	T C ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG ATTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCAATTGTTGTTT
WI-9676d	134	C A ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG C/AJATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTG AGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCAATTGTTGTTT
WI-9676c	114	A G ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCAATTGTTGTTT
WI-9676b	92	C T ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCAATTGTTGTTT
WI-9676a	84	A C ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCAATTGTTGTTT

WI-9738b	40	C A ---	---	TGGACCAACACAGACAGATGTAATTCCTGGTGCTGTGTA[C/A]ATTACAACATCATTGATCACATGC AGCAACATCAACATCTCAAGGAGTCCATTGTTCAAAACACAGTAATGACTCCACATTTTCCCTTT GAGTCAACAAAAGACTCTGCTTGTCACCTTGCTGGAGCGGGTGGTTTTTCACTATGTGAGTATCTA TCTTTTATTTCTGTCCCTTATGTTGGTGGCACATGCTGTATGCTGTCC
WI-9738	40	C A ---	---	TGGACCAACACAGACAGATGTAATTCCTGGTGCTGTGTA[C/A]ATTACAACATCATTGATCACATGC AGCAACATCAACATCTCAAGGAGTCCATTGTTCAAAACACAGTAATGACTCCACATTTTCCCTTT GAGTCAACAAAAGACTCTGCTTGTCACCTTGCTGGAGCGGGTGGTTTTTCACTATGTGAGTATCTA TCTTTTATTTCTGTCCCTTATGTTGGTGGCACATGCTGTATGCTGTCC
WI-9756	47	A ---	---	ACTGAAATGTAATGGCCAAGGACCCAGGACCTTAAAAATCATAAGAAATTAATCTGTGGGAAAA GAGTAACACTACAAAAGCATCTAAACAAGAGCAGGATGTGATGTAATGTGTCCTTATCAGCTTTAGTC AGTAAAGATAAGAAAGCCCTGGTGAGTATCCACTCCACAACACACAGAAATACACTTTTGGGAAAG ATTCCACTTAACCACCTGATTTCTTCACTTTTTATGATTTAAACCTCCTCGTGG
WI-9758	135	A G ---	---	GATGGTCCCTTAAGGATTTGCAATGGTTAATGGGCAGACTGGTGCAAAAAGAGGCTGAATTGAATAAT TAGGAACTGGGAGAAATCAATTCAAAGAAATCTTGTTCGCAAGGTCAATTTTATACATATTA A[A/G]TAAATAACTCTGGTAGGTTCTATAGCAATGCTAAGTAAAGTAAACCGCTGGTTTCTAAATT ATTACG
WI-9778	127	G A ---	---	ATTTAAATCCAGGCAGCGGGGAAATGGATACTTTCATATGTCTGTACCCAACTATAAACITTTTG GTTCTCATGCACCATTTTCAATTTGCTTCTCACTCCAAAGTACCACCTGATTTTACCAGTT[G/A]CTCTC ATAATTGACTTTGCTACTGGAAGAACTCTTAGAATGTTGGAATTTCTATTACACACTTTGCCTCA AAGAAATGTCAGTCAGGACTAAAGGCAATAGTCTCAGGGCAGACAGCC
WI-9832	116	C A ---	---	TCTCCCTTTGCCCTCCTCATGCCCACTCCCTCAGCCTGCACAGAGCGTTTCTCCAGTGTAGTCTCTGGT CCATCTGCATCAAAATCACCTGCAGGACTTGTGACAAATGCAGTTT[C/G]ATGGATCCCACCCAGGA CTCAAAAACCTAGGAATTTGGGAGAAAGAGGACCTGGAATCGGTGTTGCTAGCAAGCCCCCAGGTGG TTTGTAAAGTGGACTAAAGTTTGAGGACCAGACATGGAAGGTTGGCTTTGGC
WI-9841	101	A G ---	---	TGGAAAAATAGCTTTTATCAATCTCTGATATGCTACATATGTCATGGAGAAATGCAGAAATGGCATGA TATGAAATTCATTTTGAATGAATAAAATATAC[A/G]GTGTGTATATATATATATATTTAACACTT AGGATTATATACACACAATAAACGCTCTGTAGGATAAACTAAGGTTCTATCAGTGGGAAATGAGA TTGAAAAGAGGGGATGTTTACTTGATATGCTGTG
WI-9880c	222	G A ---	---	GAACTAACACCTTTCTTGCATGGATTTTCTTGATTATGGCAGTTAACAAATAAAATGTTATTAGATC ACTGGTGCTTCTGTGGGTTGAGTTTTTATGATATCTCTGTAGACCCATAAGGGAGGCTGTGA GTTGTTTTCTACATCCTTTGGACTATATAAGATCCTCTTTTAAATATATATTTTATATAAGCACATGAA AATGGAATGAAATAATGA[G/A]TTGACATAGGAATACCTACATATTTTG



WI-9880b	157	C A ---	---	GAAC TAACACCTTCTTGCA TGGATTTTCTTGATTATGGCAGTTAACAAATAAAATGTTATTAGATC ACTGGTGCTTCTGTGGGGTGGATTTTATGATATCTCTGTTAGACCCATAAGGGAGGCTGTGA GTTGTTTCTACATCCTTGA[C/A]TATATAAGATCCTCTTTTAAATATATTTTATATAAGCACAT GAAATGGAATGAAATAATGAGTTGACATAGGAATTACCTACATATTTTG
WI-9880a	108	C T ---	---	GAAC TAACACCTTCTTGCA TGGATTTTCTTGATTATGGCAGTTAACAAATAAAATGTTATTAGATC ACTGGTGCTTCTGTGGGGTGGATTTTATGATATCTCTGTTAGACCCATAAGGGAGGCTG TGAGTTGTTTCTACATCCTTGGACTATATAAGATCCTCTTTTAAATATATTTTATATAAGCACAT GAAATGGAATGAAATAATGAGTTGACATAGGAATTACCTACATATTTTG
WI-10183	127	C T ---	---	ACACTGCAGGCACTCCAAATCCTNACAGACATATGCACCTCGGAATCAACTCAGGCATGCACAGCAT CCCTGTGCTGGAGTTTATTTTAAAAACAACGCCAGTTATCACAGTTCTNTTTTGT[C/T]CACC ATTTCCATAACAAAAGAGCTACACAAAAATTTNGGGGGAGANACTCTCTTTGGAGACTGACACATT TGCAGAGGGGTGATGAATAATGATTCCTCAA
FB25G10b	109	A G ---	---	TCCCTCAATGACAGATGAAC TAAATTTTCTCTGGGTAAGAAATAC TTTATGTCCATTGTGATTAAA AAGTCAGATTCAAGACACTGCTTTATGTACAAGAAAAATGGAA[C/A]GTTGATTTTAGATCCTCCCCCAG TGACAAGTAACTGAAC TGAACATATTTATACATAAAATGGAATGTAAGAACCTATTTTGGATATCC CGGAC
FB25G10	109	A G ---	---	TCCCTCAATGACAGATGAAC TAAATTTTCTCTGGGTAAGAAATAC TTTATGTCCATTGTGATTAAA AAGTCAGATTCAAGACACTGCTTTATGTACAAGAAAAATGGAA[C/A]GTTGATTTTAGATCCTCCCCCAG TGACAAGTAACTGAAC TGAACATATTTATACATAAAATGGAATGTAAGAACCTATTTTGGATATCC CGGAC
IB3071	102	C A ---	---	ACAACTGAACTTCCATAACAGTCAATGGTACAGTCAACATCACATGTACAGAACACACAAATTTA GATGAACTGAAATTAAGNTAAATAAAATAAAAT[C/A]CAATTTTCAGNAAACAAAAATCAAAAC ATTAAGGNTCCCTGNNTATTTCTTAAACCCCTAATGAGATTTCACTGGNCTCAAGTCAATTTTGTAGTGA GGCATTACAATATGACCCCTATTAAACCCAGTCTAGGGATTCTG
NIB551	161	C T ---	---	CGTCTTCTCTTTTGAGATTGCAATTAAGTAGATAATATGAGAGAGAACTGACAATGGGTTGTCCC TACTGAGCTTGGGCCAGGTGTACTTAGGAACCCCAATCCACCCAGAGAGACTCATCTATGTTA ACACTAAGGATGCCCTGGAGGAGT[C/T]TGACACACATACATGCGGCCATTGGTTGATTCAGCTTT GCAAGCAGCGTAGTGAGAAAACCAAAAGCTTGTCC
S72904	51	G T ---	---	AGCATAGAAAGTGATTATATTTTAAATGTTTCAAGTGAAGTCTCTTT[G/T]AATTTGTGAGTTT ATTCTGGAAAAATCTTTTGAGTTAAAAATAAGGATCTCTAGACAGACACCTCGAAGTACAGGCCCTAAA GAGAAATTGCCTCAAAACCAAGTGTGTAAC TCTCTCCCTTTCTGTCAATTGGTTGTTGCTTTAAATA TTGCAAAAGTCTGATGCTAAACAGATTTTGGAGTGTTCAGTGTCTGTA

UTR-00481	115	CT	---	---	TATTCITTTTATCCTGGGCCACAGTTCCTTGATTATTCCTCTTGTTGTTAAAGACTGAATTTGTAAACC CATTCAGATAAATGGCAGTACTTTAGGACACACACAAAACACAGAC/C/TJACACCTTTTGATATGTA AGCTTGACCTAAAGTCAAGGGACCTGTGTAGCAATTCAGATTGAGC
ESTC1	33	---	---	---	CCCTGTAGCAGTCTTCAGCCTCCCTCTACCTACNAGATCTGGAGCAACAGCTAGGAAA
ESTC102	37	---	---	---	GCTACTACCAGGCTGCTTGGTGGACAAAAATAACNAGGAGGATCCACGGGATTAGTTA
ESTC103	21	---	---	---	GCCATCAAAATTTCTTCACANTCAATACTGTTGAACAACAAGATAACACATCTCTTGCTCATCCC ACTTGAA
ESTC107	20	---	---	---	TGCTGGCTCACTTCTCACANGCTGTATTACCTTTCAGAGCTGAGTGAGGCTGTGCT
ESTC109	35	---	---	---	AAACCAGGAAGGCCCTGCCCGCAGAGGCACATGNACAGGCGAGTGCACAGTGACC
ESTC110	23	---	---	---	AAACCTCACACAGAAAAAGAGGANAACACTCAGAAATGTGATTACAGATTAGGCA
ESTC113	37	---	---	---	AAGGGACACAGTGTGCTGACAAGGTGACACTGAACANACAGTTTCCITTTAATTGTAAGCGGG CATCG
ESTC117	24	---	---	---	AATTGGCTCTTCCACATGATACNTAAGTTCAAGGTCCAAAGTTCTATCACAATTTACAAAAAGC CTCCA
ESTC119	24	---	---	---	TGTCAAGCAGATCTTGAGGGTTATNGTTAAGCCTGATAACAGCCTCTTT
ESTC122	34	---	---	---	GACAAATAACACAGCTAAGCTACTGACATAAAATATNCAATAAATTTATGAGATATAAGGTACAGATG AGAAAAATCTGAAA
ESTC123	21	---	---	---	GAAGCCAGTATGTTGTGGCAANATTCGAGAAAAACACACTGAAAAA
ESTC128	42	---	---	---	GCAGAGGCATCAGATAAGGCCTCAGAAAAGCCCAGGCCATCATNTCCATGGACCAGGCTGGCTCAA TGTTGGAACCTGG
ESTC129	20	---	---	---	AGTCACCATGCCAGCCTAGNATGAGTTTAGTAAGATTGGTTATGCTGGGGAG
ESTC13	46	---	---	---	GTGTATCTGGGCTTCATGGGATGCATAAAATTTCCAGTTGGTAAGNAGCAGGTGCCGAGGGTCTGGA TCAGAAAA
ESTC130	49	---	---	---	GCCTGCTCACAAGGTAGACAAAAACATAAATCTTCAGGAAATGAAACANGAGAGCTGAAACAAT CTACACCTGAATG

ESTC132	30	---	---	---	GGTAAAGTCTAAATTACTGCCTTAGCAAACNCTATGTTGTCAAGGTTTTTCTGCTGCA
ESTC137	21	---	---	---	CCAGTTTGGCTTCTGTCTCCANAGTCTCTCTCCATGIGGCAACA
ESTC139	45	---	---	---	AGGAGCACAGCCCTAAGGACATGAAGGTCAGAGTTTCTCAGAGAGNGGGCTGGGTCCCTGAGCTAG GAGGAGG
ESTC14	20	---	---	---	CCCATTTGTGCACAGGAAGNAGAGGAGGCCACGTTCTTACTAGTTCCCTTGCAATGTTTAGAAAGC TTGCCCTGGTG
ESTC142	72	---	---	---	CCTAGGCTCATAACAATACAGTCTCAATACAAAAAGACGTAATAATCTATTTTATTCATTTTAAATC AAAGANACCATTCCTTCCCTAACAAACA
ESTC143	29	---	---	---	GTTTACGAAAAGTACTGAAAATGCTATTANTAGCTGAATTTGTGATTTCCCTTTTG
ESTC144	26	---	---	---	AAATCCATATTTTCTTGACATGAGGTNGCTTTTACAGCATTTTCGG
ESTC146	20	---	---	---	CATGTCAGGATAAGGAGCANACACCAGGATTTATACACGGTGGCAGCG
ESTC148	42	---	---	---	TCITTTGGTTGCTACACAGACACTTAAGTACTGTATCGCTGTATGCAGGGCCTGTGGAGGCCCTCG GGGTGGCTGGGCTGTGCTCTGAG
ESTC149	28	---	---	---	TCAGTTCAITTTATTTGCTTTAAGAGTTANATACCATGAGACACAGTTCTGG
ESTC15	28	---	---	---	GGATTGTAATATTGCCAGCTTTGTAAAGNCATTAAAGCAGAAGTTTCTTCAGTGATCTT
ESTC150	20	---	---	---	CCAGGAAACAAAGCACACANACTTATAGAATCTTTGGTTTAAAAATTTATTCATAATATCAATATT AAACCTGATGTTTAAAGAACCTAATGAGA
ESTC151	49	---	---	---	GAAGCTAAGGCCCCCATTTTTTCTTTTAAATACAAATCTACTGGTGTCTNAAAACTCAGAGCTTAGGA AACACAGCC
ESTC155	37	---	---	---	TTTTTAATTGACAACTCAATCTCTACATACATACAGINTTGCACGAATTATAAGTGGATCAACAATT ATATTATTGATACAAACTCATGAGCATTTACA
ESTC156	32	---	---	---	GCAGCATTTGTGACAGGAGAGCGCAAAACAANNCCTGGCTGCCCTGGGATGGAGCGGGCGGCCTCA CCACCACTGCAT
ESTC158	35	---	---	---	ACCAAGCCCTGGGATTTTACTGTCTTGTATGACTACANGGCTTTCACAGTCTGAGATGCTTCAGTGTGC AA
ESTC159	31	---	---	---	AGCTGGCAAGAGACTTCTGAGGCACATCAGNTACGTTGGTCAATTTAGGGCACGGTCTGGTTCTGGA GCTTTGAAAGG

ESTC16	23	---	---	---	CACTGAATGCTCTGCCATGAGCCNCAAGCAGCAGTGATCATCAACCACAGGACAGGTT
ESTC160	38	---	---	---	TTCTAGCATTGCTGGTGCAAGTGGGGCCTGAGCTGGGNGCAGTCGGCAGTGCTCACTGGGCCCGTTTG GGACTGGGTGA
ESTC162	36	---	---	---	CTCTCGTCGGTTTGCAAGTTGCTGTTGTTCCAGNTACACAGTCAGAGCTCCACAG
ESTC164	31	---	---	---	TCATCTCCATAGAATATTGGTTTGTAAACANGAATACAATCCAATATATAACATTAAAACAATCC GATACATACCA
ESTC169	22	---	---	---	GTCTCTGGTGTGAGGGGAATCANTTGTCTGGATTAGAGGAAAGGTGCCGCCGTCTGTTTCCATGACTT
ESTC176	23	---	---	---	CACCTCTCCCTGAGCTACCCANGTAGTGTCTGGGAGCTGGCA
ESTC177	42	---	---	---	TGGGTGGCTCTTTAAATACCTTCCATTATATTTTCAAAATTTTNCATTATTTATTAATAACCTTTTAT TCTCTTTATCCCATAAAAGGCAACCAA
ESTC18	29	---	---	---	TCAGACACTGCCGACATCAGCATTTGTCTCNTGTACAGCTCCCTCCCTGCAGGGGCCCTGGGAGAC AACTGGACAAGA
ESTC181	21	---	---	---	TAGGGATTCCAAGTTGCCCTGGNTTTAATATAATACATAATTCACAAAATTTACACAGCTCATGCATAC CA
ESTC186	43	---	---	---	GCTTGACTAGCGAGGCTACATCACAAATTTATAAAGTGCCAGATNAGTGCTAATTTGTCATTACAGCTTG ATTTTTCACCTCA
ESTC187	24	---	---	---	ACCATGATTGCCCTCACACAAGCATNATCAATCGCCACGAGAGACTGGATGCCAAAGAGTATGGCTGG
ESTC188	25	---	---	---	TCTATTAAACAGGGTTATGTCACACCNTGTCAACCTCAACCTCAAAACAGATGATACTCATCCTTGCTTCCAT CTTGC
ESTC189	27	---	---	---	AAAGTACAATCCAGTATATGCAGAAAGNTACTCAGCATCACACTCGTGATCA
ESTC196	42	---	---	---	TCCTCAAATACCACCTTCCCTTAACCTTATCAGTCTAGTAGCNITTTCAAAGGAGGAAAATGGGTTAC CTTTCAGGGG
ESTC197	26	---	---	---	ATCTCCAGTGTCTGCTGCCCTCCTCCNGCAAAGTCTCCACAAAGCACA
ESTC20	33	---	---	---	AAGATTAGACAGACCGCGTATAGTAAGCTCTGNGGAACCTCCAAAGATCTAGAGGGGCTGTGGGAA CGCTGCTTAGATC
ESTC200	44	---	---	---	TTTGGTGAAAATCCCAATATATAGGTTTAAAAAATAATCATTANCATCATTAACAGTACTTTAAAT CAATTACTCTCTTTGCTGCAACAG

ESTC201	35	---	---	---	---	TCTTACTTGGGTAGTTTAGCAAAATTTTTTAAANCCACATCCACAGATTGGTT
ESTC202	22	---	---	---	---	CTGCTGAGGGAGGACAGACGNCAGCGGCTGGGTGGCCGCCAGAAAGGCTGGCGTGATGTT CGAGATGAGCC
ESTC203	27	---	---	---	---	ACACTTAACAGGTTAAAATATCCAAATNAAATTTACTGCAACTTTTGTAGAAATTTTATTTGTGCTAC AAGACACGTTGCA
ESTC208	43	---	---	---	---	TATAGCCCCATCGCTCTCAGTTATTAGAATCTGAGAGGGATAANAGCAATAACTATTGTTTAAAGC CTAAGAGTGAAAA
ESTC210	29	---	---	---	---	GATGAAGTGGCTTCCTTTGGCGAAAGGATNAAGAAGTGAGTGACGGTGACCTGTG
ESTC212	27	---	---	---	---	GGGTAACCTGATGAGGAAGCTCTAGTGNAGAAATTCAGGACGGGTCTTCAGAGCAGAGGGCTTGGT TCAAGTC
ESTC214	21	---	---	---	---	CTCCAGAGTCCCTCCTCCANACCAGGGGCAGGAGGTTAGGGAAT
ESTC216	49	---	---	---	---	TGGCAAGAAATTTATTACACTAACAAATTAATTAATCAGGTTATTNTAGATTGGTCAGAAAA CAAAAGACCA
ESTC217	28	---	---	---	---	TTTTGTCAAGTAAATGAGCAATACACTGANTGAAATCTGCATGATTAATAACATTAAACAAGTTTCAAT AAACACACCCCA
ESTC219	32	---	---	---	---	GTACACATCCTGGGGTGAGCACACAGCAAAANGGGTGGGACGTGCAGAGAGGTATAGGGTAAAG GCAAGGAAGC
ESTC22	41	---	---	---	---	TCATTGAAGAAAAATTATGGGTTTTTATTCTTATTCTAATTNGAGAATGCTTAATGTCACAGGCTACA TAAGGCC
ESTC223	27	---	---	---	---	CTTCTGAAGCCCAAGAGAGGGGCAGAANGTAGTCTTGATTTAAAAAACAGAAAGGGAGGAGGA
ESTC224	37	---	---	---	---	CGAAGGTAGATTTCCCTCACATATTACAAAATACACANAACACACACACACACACACACA
ESTC225	20	---	---	---	---	TGCACTGTTACTCCCCAGACNGAGAGCTTACATACCATATAGAAAGAGCATAAGTGCTTCAGAAGGA ATGTGTAGGATCG
ESTC23	27	---	---	---	---	TTCTACTTTATTTTCATATCCCACCACNATAACGACTCCTTTAATTTAACTAAAAACCACACAGGGT TCCTGAAAGGG
ESTC230	43	---	---	---	---	GCCTCCTCCACGAATTTGAAAGACATATTGGCTGACCTGATACNTAAGGAGCGGCCAGAAATTAAGA
ESTC231	24	---	---	---	---	CAAAAGGGTTAGTCATATCCCCANCAACAGCATGATAAAATAATTCAAC

ESTC28	23	---	---	---	GAAGAGCTGGGCAGCATCTGACNITTTCTCTCTATTCCTATAAAAAATAAGGAGCAGAAATCT GC
ESTC3	20	---	---	---	CAGACATGACCTACCGTCCNGGCCCTCAATTCATATTTATCTTGAGCCGCTTGGTCAGGTTTGAT TCGCACACTCC
ESTC31	32	---	---	---	ACAGCCCCACAGAACTATTGTAAACAATAATNTCAGTCGGTGATCATTGTAATATACAATACAAAG CAATTTCTCTAGA
ESTC33	25	---	---	---	AGCACTTCCAGCTCCTTGACGTTGTNGGACCAGGGAACCTCCGGAA
ESTC39	26	---	---	---	AAGGAAAGGGAACCCACCTGGGCTTNGGTCACAGAACTCAGAGCCTGGGCATTA
ESTC4	23	---	---	---	CCACTGAATCACACAACATGGACNAATCTCAAATCATTTATGCTGATGGAAAGAAACCATT
ESTC40	22	---	---	---	GGCATGCTAGACAGAGGCATTANTTTGAAGATCTTTAAAAATATTTGACTTGTCCCCCTTCAC
ESTC45	37	---	---	---	TTTGGAGGTTTGTCTGGAGTTTGTCTTTGTAACNCTCTCATCATCAGGCTATATATAA
ESTC50	56	---	---	---	CTGTCCGTGGTGAGCCCTGCCGCTGCCATGGGCCAGGAGCCACTGGTGGGANCCGGGCAGATG TTTACCCTGT
ESTC56	45	---	---	---	GTGCCCTGAAGATTAGCAGCAGCAGCAGCAGGTGGCAGGAAGNAGTGGAGGAAAGGACACCA AGT
ESTC57	20	---	---	---	AAGTGGGCCCTCCAGTCCCTCTCTGGGCACAGATCCCACAGTCTGCTC
ESTC59	38	---	---	---	GAAACACAAAAGTGTGAGAAAAAACTTCTCAAAATNGTTCAGACTTCAGGAAAAATGATTTCC ACATGGTAAGGCC
ESTC6	27	---	---	---	TCTGAGCACTTCACTACCAATGAGCNITTAGCTACTTTTCAGAAATTGAAGGAGAAAAATGCATTATG TGGACTGAACCG
ESTC61	57	---	---	---	AGTGATTTTGGCTAGGCGTGGTTCTCATCTGTGAAATTCACAGCGCAATGACAGCANCTCTCTCCC ACCCACTCAAG
ESTC63	20	---	---	---	ACAGACAGCATCACACCANAGGGCCCCACGGGAGGTGCGGGAGACGACACTTTTCCCTGGGAAA GGCAGCTCTAATC
ESTC69	20	---	---	---	GAGAGGCTAGTCAGGAGGGANACCCTCAAGTTAAATCCCCACACTTACTTACTGCTCATCCGT CACTTTGCTTAA
ESTC7	45	---	---	---	AGTTTCCCTAGAGCTGTGGGCCAGATAGCTGTTCTGAGTTGCANGCACGATGGAGATTGGACACT G

ESTC72	37	---	---	---	GGGCTTCCAAATGGGTATTGGGGCCAGGAGGCTGGCNITTTGGCGTGACGCCTAAAAAGTGTGACC AACAAATTCACAGCTACAGGAAATCTAGAACAAAATCAAAATATTCATCACNTTGGGTTGAAAAAGTTG GAAGA
ESTC74	49	---	---	---	ATGACTTTCTGTCTCCCATCGAAACCAGAGTTTCCCCAGNGAGCCCTTCTCTATCTGCGGTTA
ESTC77	40	---	---	---	GGCTCAGCACAGGATAAGANCCCCACTCCGCATGTCCCCAGAGGGCAGCACTCCAG
ESTC81	20	---	---	---	TTTCAGATGATGGGTCTGAGATGNTCCCTCAGGCTGCATCAGCTGTCTTCAGTCTCCAGAACAGAAA GAGCCTGACCCA
ESTC82	25	---	---	---	CAAAATCAAATACACAGATCCAGATATGTGAACCATATATACATATCTATACANCCATTATTAGAC TTTCACAAACCT
ESTC83	53	---	---	---	TTTAGCTGTATACCAAGTTTCCATAAANCTGTCTGCTGTTGGGAGGCTACAGCCTGACCACATTC TTTGC
ESTC85	28	---	---	---	ATTGCAAAGGAAGTGGAAACGTGNTCAAACAGAAATGGTGACAATGA
ESTC89	22	---	---	---	CTGGTCTCTCGTCTGGCATTGCTCTCTCCTCNGGCCAGTGTCCACCCAAAGTGTCTTCCCGATGAT
ESTC90	33	---	---	---	CTCCCTCCTCAGTTCACAGTGGAGACTANGGAGATTGAGGGCAGGATCC
ESTC93	29	---	---	---	GCACGTTCTTGTCTCTCTCCAGAAGTTGNAGAGTCTATTAGTTGATTATCTGTGG
ESTC95	32	---	---	---	AAATGACTTGACGAAGCTCATAGAAAGATTAGCAGGTAGTAGAATAATGACTGCTGACTCCTAATTCA GTGGATCTTCCCTGGCCACCCTTTTGTATTGAGCTGCAATGCTTCTGACTGTTCTCCA/C/TGCCAG ATCTTATCAATGATCTTTCACCTAAGAAACAGCAAAAGATTCTGGCAAGCACACGATCTAGAGATAC ATCTTATTGCGATTTTTCACAAAAATCAAAAAGAAAGAAAGGCTTAGCTG
DWU-100	127	CT	---	---	TTCCATCCTAGATATCTACTCAAATAATTGAGACAAAGTTTCAAACAGAAAGACGCTTGTGTGAA TGTTTCATGGC/AGTGGCTTATTCACAGTAGCCAAACGATGAAACAAACCCCAAGCTATATATACCA GATGAAAGGATAAAACAAAATGTGGTCCATCCATACAAATGGAGTATTACACAGCCATAAAAAAGGAAT GAAGCAGTGATCCCTACTACACTGTGGAT
DWU-177	77	A	G	---	CAAAATACCTGGACTATCAACCTTGTGTGCTTAATCCCTGCAGCATTCAGGTTAATCCATCTAAGTGAC ATTTTGAATTCAGCGGTGCCACCCAATCATGCCAGCTTCTGTATATGAATGAGATATACATTT ATGCTGACCTTCCCTCAAGACTGATTTTTCATGTCTGGGACTTACAATATCTCAAGGAAACAGCAATG TCAACAGGGA/CTGGGAAACCAGCCCTATCTGAGTCTTCGGCTCCCTCC
DWU-286	213	A	C	---	

DWU-252	94 A G ---	---	AGTATACAAACATTTAAGCTGTGGTCAAGGCTACAGATGTGCTGACAAGGCACCTTCATGTAAAGTGT CAGAAAGGAGCTACAAAACCTACCCCTCA/GJTGAGCATGGTACTTGGCCCTTTGGAGGAACAATCGGC TGCAATTAAGATCCAGCTGCCTATTGATTTAAGCTTTCCTGTTGAATGACAAAGTATGTGGTTTTGTA AT
DWU-330	85 C T ---	---	GAACATTCCTCTGCAGCACTTCACTACCAATGAGCATTAGCTACTTTTCAGAAATTGAAGGAGAAAA TGCAATATGTGGACTGA/CJTCGACTTTTCTAAAGCTCTGAACAAAAGCTTTTCTTCTCTTTTGCAA CAAGACAAAAGCAAAGCCACATTTGCATTAGACAGATGACGGCTGCTCGAAGAACAATGTCAGAAAA CTCGATGAATGTGTTGATTTGAGAAATTTTACTGACAGAAATGCAATCTCCCT
DWU-370	231 A G ---	---	GAAATGTTAATTGGCAGGTGAAAAGGTACAGATGTGCTGTAGCAGACCTTTGGTTTTAAAGAG AAGCATCATTTCCCAACAGGGCAACTGTAGAAGGCCAGCTGAAGAGTAAAGGAAAGTCTGAGG ACTGAGCCTGTGGCTGGCTGGAAAAAGGTGAATGTTGAGGCCCTTCACTTCCATCACAAGAAAGTC ATTAGACGGTACCAATTCAGTGTCTGTTCCCTA/GJGCATCTATTCTCTGTGC
DWU-1537b	89 A G ---	---	CTCTTAACCTCAGTCCCTCATCTATAAGAAATAAGGGATTGATGTGATCAGATAGCTCAGGTAATC CAGGACCAGAAACCCAGGAGC/GJTGAGGACCTGATCCACAGCTAGAGGATGGGGACTCTGTAGCT ACAGCATTTCTGACACACACAAGAAATCCAGTAAGCAGCACACACTGGCTGA
DWU-1537a	52 C T ---	---	CTCTTAACCTCAGTCCCTCATCTATAAGAAATAAGGGATTGATGTGATCA/CJTGATGCTCAGGTA ATCCAGGACCAAGAAACCCAGGAGCATGGGACCTGATCCACAGCTAGAGGATGGGGACTCTGTAGCT ACAGCATTTCTGACACACACAAGAAATCCAGTAAGCAGCACACACTGGCTGA
ESTD-ADAb	196 C G ---	---	ACCATCTTACTATGGCAGGTAAGTCCATACAGAAGAGCCCTCTCTCCCTGGGATTTGAGTGGGGTC CCCAGCTCCACCAGAGGCCCTGGGGAATCCAGGGTCACTGTCTCTCTCTCCCTGTGGGAAT CAAGCCAGCTCCAGGCCAGAAAGTGGGACTGTGAGGACATGGAGGCTCGGCACTGAGCTG/CJGAGA CCCGCAGACCAACTCCTGAGCTTTCTGGGCCCTCTGAGCTTGTCTCTC
ESTD-ADAA	184 G A ---	---	ACCATCTTACTATGGCAGGTAAGTCCATACAGAAGAGCCCTCTCTCCCTGGGATTTGAGTGGGGTC CCCAGCTCCACCAGAGGCCCTGGGGAATCCAGGGTCACTGTCTCTCTCTCTCCCTGTGGGAAT CAAGCCAGCTCCAGGCCAGAAAGTGGGACTGTGAGGACATGGAGGCTCG/CJGAGCACTGAGCTGCAGA CCCGCAGACCAACTCCTGAGCTTTCTGGGCCCTCTGAGCTTGTCTCTC
ESTD-ANT1	160 T C ---	---	TCTCCTGTCAATTCCTACTCCATTAGTTCAAGGTCAAGTGAAGAACTGGGCAATTAACCAAGTAATTCA TGGACTGCCCAACTCGGAAACAAGAGGGCCGAGTGGAGCAGGAGTATTATGCTACGCGGTACCTT TTTTATGGAGACCGAACTGAGGCT/CJGAGCTCAGATGATCCTGT
EST10398 2b	168 A G ---	---	TGCCTGGGGTGGCAAGGCTGCAAAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGGTA AGATGCTGCCACCTCTTATCTACTTGTATGATGTTCACATTTGGGGCTTGACTTCCAACACGGAGAAG CATTTGTTTCTCGGGCCAAGAAAGGTATCTACCI/GJATAGTGTCTATTAGGCATTTG



EST10398 2a	147 C T ---			TGCCTGGGTGGCAAGGCTGCAAAAGGAGGCAACCCAGGAGCTTTATGAAGCGGGCCATGGTA AGATGCTGCCACCTTATCTACTTGATGATGTTACATTTGGGGCTTGACTTTCCAAACACGGAGAAG CAITGTTTCTTTC/TGGGCCAAGAAGGTATCTACCAATAGTGCTATTAGGCATTG
ESTD-C7	14 G C ---			ATATGTGGCCTTA[G/C]TTACCTAGAGCTGGACAATCCTGCTGGA
ESTD- D4S95	90 T C ---			CTTTATGCACGATAGGCTTTCTCTACTAATCACAAGATTTTGAGAAGAGCAAAACAACCTTCAAGG ATAATGGGGCAATCACCTTCTTTT/CCTCTTTAGAGTCTACCGG
ESTD- GPPK2L	38 G A ---			AGTCTTCATCTCGGGTGTCCAGGTAGATCCCTTTTCAACC[G/A]CCGAGAACTGCTCGATATC
ESTD- HRASb	82 A G ---			CTGGGCTGCGCCGACAGCTGCTGGCACTGGACGGCGGCCAGGCTCACCTCTATAGTGGGTG TATTCGTCCACAAA[A/G]TGCACTCTGGATCAGCT
ESTD- HRASa	37 C T ---			CTGGGCTGCGCCGACAGCTGCTGGCACCTGGACGG[C/T]GGGCCAGGCTCACCTCTATAGTGGG TCGTATTCGTCCACAAAATGCATCTGGATCAGCT
ESTD- NRAMP	81 A G ---			GGAGGCAGGAGTGGGGAGGGGTCTGCTCTCCAGGTCCACAGACCAGAGAGCGGCTCAGTG TATCCCCACCCCA[A/G]TGTGGCGCTGGAGATGAAGAGGATGATGCAGGT
ESTD-OTC	18 A G ---			GTGACCTTCTCACCTTAA[A/G]AAACTTTACCGGAGAAGAAATTAATATATGCTATGGCTATCAGC AGATCTGAAATTTAGGATAAACAGAAAGGAGGATGTAAACA
EST36751 7	36 C T ---			CCAAGTCGTTCAATTTAGCTTTGCAGGTTTAACT[C/T]GATTACTTTTCTATTCAATCTCTGTA AAATTGAAATATGAACCTAGTTTCTGATCTATGGTTCAAGTTAAACAG
EST40562	109 A G ---			CACGTGGAAGGAGCTATTTTGGAGGCTTTAAGAGTAAAGAACTGTCCCAAACTGTGGCTGAC TTTATGGCTAAGAAGTTTCACTGGATGCAATTAATAACAAAT[A/G]TTTACCTTTTGAAAAATAA ATGAAGGATTTGACCTGCTTCGCTCTGGAAGAGTATCCGTACCGTCTGACGTTTGAACAATAACA GATGCCTTCCCTTGTAGCAGTTTTCAGCCTCCTCTACCCCTA
EST18288 3	121 C T ---			GCTCTATACCCCTGTGGTCTCCACGCTCTCTGGACTTCACAGAACTGGATGTTGCTGCTGAGAA GATTGACAGGTTTCATGAGGCTGTGACAGGATGGAAGACTGGCTGCCCTGA[C/T]GGGAGCCAGT GTGGACAGCACCCCTGGCTTTCAACACCTAGCTCCACTTCCAAGGTAAAGGCAAACTCTCTGCTGGCTC TGGCCCTAGGACTTAGTATCC
ESTD-AK- 168	31 C T ---			GGGAGTGACAGCTAGAGCACCAAGGGGGGCT[C/T]TACAGCTGTGTTCTCATGGAGGACAGGCTTCT GCTCATCTGG
ESTD-ALB	180 A G ---			AATCCAGACACTTTAGGAGGCTGAGGCGGCATATCACAGAGGTGAGGATTTGAGACCAGTCTGA CCAACATGGTGAACCCCATCTCTACTAAAAATACAAAATTAGCCAGGCGATGGTGGTGCATGCCTGT AATCCAGGAGGCTGAGGCGAGGAGATCGCTGAACCTGGGAGGCG[A/G]AGGTTGTGGTGAGCCGA GATGGCACCATTGCACTCCAGCTGGGCAACAAGAGTAAACTCTGTCTTC

EST70523	3	182	G T	---	---	TTCCCGCCAGCCCCCATCTTGGCACCCCTGGTCCCCCTCAGGGGCCACCGGGGCACTCACCGCTCTCGCTCTCGGTAAACATCCGGCGGGCGCGTCTTGAGCACATAGCCTGGACCGTTCCGTATAGGAGGACCGTGTAGGCCCTTCTGTCCCGGCCCTGCCAGGGGCCAGCCCTGTCAGAGAGAGGGGTCCCTGTGGTTGAGCTGAACACAGCTGTGGAGTGTCTCCACGCTG
ESTD-APOA2		101	C T	---	---	CCAGGTGTTGTGGCACGTGCCTGTAATCCCAGCTACTCGGGAGACTGAGGCATGAGAATCTTTTGAACCGGGGAGCGGAGGTTGCAGTGAGCTGACATCGCTGGCCACTGCCTCCAGCCTAGGTGACAGAGCAAGACTCC
EST58707	7	112	C T	---	---	CAGTGATCTGGAAAGCCTACAGGACACCAAAATAACCTTAATCATCAATTGGTTACAGGAGGCTTTAAGTTCAGCATCTTTGGCTCACATGAAGGCCAAATTCGAGAGACGCTCTAGAAAGATACACGAGACGAATGTATCAAAATGGACATTGACAGGAACTTCAACGATACCTGTCTGTGGTAGGCCAGGTTTATAGCACACTTGTCACCTACATTTCTGATTGGTGACTCTTGCTGCTAAGAACTT
EST74167	6	137	C	---	---	AGACCATGAAGGAGTTGAAGGCCTACAAATCGGAACCTGGAGGAACAACACTGACCCCGGTGGCGGAGGAGACGCGGGCACGGCTGTCCAAGGAGCTGACGGCGCAGGCCCGCTGGCGCGGACATGGAGGACGTGCGCGCGCCCTGTTGTCAGTACCGCGCGAGGTGCAGGCCATGCTCGGCCAGAGCAACCGAGGAGCGTGCGGGTGCCTCGCTCCCACTGCGCAAGCTGCGTAAGCGGCTCCTC
EST43211	8	132	C	---	---	CGCTGTGTCAGTACCGCGCGAGGTGCAGGCCATGCTCGGCAGAGCAACGAGGAGCTGCGGGTGCGCCTCGCCTCCCACTGCGCAAGCTGCGTAAGCGGCTCTCCGCGATGCCGATGACCTGCAGAAAGCGCCTGGCAGTGTACAGGCCGCGGCGCGCGAGGCGCGGCGGCTCAGCGCCATCCGCGAGCGCCTGGCCCCCTGGTGAACAGGGCGCGTGGCGGCGCCACTGTGGGCTC
ESTD-ARSB		126	A	---	---	GGAAGAAAATGGAGCCTGTGGAAAGGAGGCGTCCGAGGGGTGGGCTTTGTGGCAAGCCCCCTTGCTGAAGCAGAAGGGCGTGAAGAACCAGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCATGAAGCTGGCCAGGGGACACACCAATGGCACAAAGCCTCTGGATGGCTTCGACGTGTGGAAACCACATCAGTGAAAGAACCCATCCCCAGAAATTGAGCTGCTGCATAATATTGACCCAAAC
EST36770	4	144	C	---	---	TGTAGCCAAAGTCACCTGCATCATATTTGGCTGCTGGCAGGCTTGGCCAGTTGCCAGCTATAATCCATCGAAATGATTTTTCATTGAGAACACCAATATTACAGTTTGTGCTTCCATTATGAGTCCCAAAATTCAACCTCCGATAGGCTGGGCTTGAACCAATACTAGGTTTCTGTTTCTCTTCTGATCATCTTTACAAGTTATACTCTTATTTTGAAGGCCCTAAAGAAAGGCTTATG
EST26021	1	137	A	---	---	TAATGTAAGCTCATCCACCAAGAGCCTGCACCATGTTTTGAGGTTGAGTGACATGTTCCGAAACCTGTCCATAAAGTAATTTTGTGAAGAAGGAGCAAGAACATTCCTCTGCAGCACTTCACTACCAATGAGCATTAGCTACTTTTCAGAAATTGAAGGAGAAAAATGCATTATGTGGACTGAACCGACTTTTCTAAAGCTCTGAACAAAAGCTTTTCTTCTCTTTTGAACAAGACAAAAGCAAGCC
ESTD-BA511		29	A G	---	---	GGCAACATAGTGAAACCCCATCTCTACAAGAAATACAAAAATAGCCAGGTGTGGTAGCAAGTGCCTGTAGTCCCAAGCTACTTGGGAGGCTGAAGTGGGAGGATCCCTTAAGCCTGGGAGGTGGAGGCTGCAGTGACCCAAGATGGTGCCACTGCA

ESTD- BCL2	116 A G ---	---	AGCTGGATTATAACTCCTCTTCTTCTGGGGCCGCTGGGTGGAGCTGGGGCGAGAGGTGCCGTT GGCCCCGTTGCTTTTCTCTGGGAAGGATGGCGACGCTGGGAGAAC[A/G]GGGTACGACAACCGGG AGATAGTGATGAAGTACATCCATTATAAGCTGTGCGAGAGGGCTACGAGTGGGATGCGGGGAGATGT GGGCGCGCGCCCCCGGGGGCCGCCGCCACCGGCACTCTCTCTCTCCCA
ESTD-BCR	69 C T ---	---	CAGTGGCTGAGTGGACGATGACATTCAGAAACCCATAGAGCCCGGAGACTCATCATCTGCGCAAGA GA[C/T]CAAGAGGTCAGCTTCTGTTGTCGCCGGAAAGGAGGCGAGGTGACAAGCTAACTCTGCTTC AAAATCAACCATCCGGTGGACACTGTGTGGCTGCCATCTGCCTGGCACA
ESTD- BRCA1aa	119 C T ---	---	AAGAAAGAGAAACTAGAAACAGTAAAGTGTCTAATAATGCTGAAGACCCCAAGATCTCATGTTAA GTGGAGAAAGGGTTTGCAAACTGAAAGATCTGTAGAGAGTAGCAGTATTTCA[C/T]TGGTACCTGG TACTGATTATGGCACTCAGGAAAGTATCTCGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAACA GAACCAATAAAT
ESTD- BRCA1bb	139 A G ---	---	ACTAAATGTAAGAAAAATCTGCTAGAGGAAAACTTTGAGGAACATTTCAATGTCACTGAAAGAGAA ATGGAAATGAGAACATTTCCAAGTACAGTGAGCACAATTAGCCGTAATAACATTAGAGAAAAATGTT TTTAAAG[A/G]AGCCAGCTCAAGCAATATTAAATGAAGTAGGTTCCAGTACTAATGAAGTGGGCTCCA GTATTAATGAAA
ESTD- BRCA1cc	126 A G ---	---	ATGCATCTCAGGTTTGTCTGAGACACCTGATGACCTGTTAGATGATGGTGAATAAAGGAAGATAC TAGTTTGTCTGAAATGACATTAAGGAAAGTTCTGCTGTTTTAGCAAAAGCGTCCAGA[A/G]AGGA GAGCTTAGCAGGAGTCTAGCCCTTTCACCCATACACATTTGGCTCAGGGTTACCGAAGAGGGGCCA AGAAATTAGAGTCTCTCAGAAAGAGAACTTATCTAGTGAGGATGAAGAGCTTCCC
EST51212 0	122 A C ---	---	ATCCTGAGCTCGCCAATAAGCTTCTTGGTTCTACTCTCTCTCCACAAGCCCCAATTTCACTTTCTCA GAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCCTTGTGCTCCCACTCAATACA[A/C]AAAGGCCCT CTCTACATCT
ESTD-C1R	40 A G ---	---	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCCTCCCT[A/G]ATTGCTCCGGGAAGCACATTTCAT CAA
ESTD-C1R	40 A G ---	---	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCCTCCCT[A/G]ATTGCTCCGGGAAGCACATTTCAT CAA
ESTD-C6	31 A C ---	---	CCCAGTCAGTTGGGGACAGCCATGCACTG[A/C]GCCCTCTGGTAGCCTTTCAACCATGCATTCCTATC TAAGCTCTGCAAAAT
EST20118 2	119 C ---	---	GTTCGGAATCCTCCTCTGAAAGTGGCCGGTTTAACTGCTCATGACGCTGGGGCTGTGGTCCAGCT GAGTGAAGGGCCTTGAAGCTGGAGTGGGGTTTAGGACGCGGGTCTCTCGTGATCCTTAAGCTCT GAGAGCAAACTCCCTTGAAGCTGGGAGTGGGGTTTAGGACGCGGGTCTCTGCGTGATCCTTAAGCT CTGAGA
EST53018 6	67 A G ---	---	ACAATCCAGGTACACATTCAGAAAGAGGGGTGTCAGTGAGCCTGGGTAGGTCCAGTAATCCA [A/G]GGATTACGGAAGGAGGCCACGAGGATCGAAGTTAGTGAAGTC

ESTD- CB22	119 C T ---				GGCAAGTTTTATTGATAGAGAGGAAATCAAATAATGGCAATGAGGAGACATCACCTGGAATGTTAG GCAGTGCCTAACTGGGGGATGGACAGACAATGGGCAGTGCCAAACCCATAGG[C/T]GGATACAAAAG ACAGGCAAGGAAGGGGTAGAACCATCAAAGAGGAATAGGCTGGTGACCCCAAGCAAGGAGGACCT AGTAACATAATTGTGCTTCATTATGGTCTTCCCGGCTTCTCTCAGACAC
ESTD- CB23	136 C ---				TAGAACCATCAAAGAGGAATAGGCTGGTGACCCCAAGCAAGGAGGACCTAGTAACATAATTGTGC TTCATTATGTGCTTCCCGGCTTCTCTCTCACACATACAGAGGCCCTACCAGGACCAGACAGCT CTCAGAGCAACCTAGCCCCATTACCTCTTCCCTTCCAGAGGACCTGAAAAACGTGTTCCCAACCCGA GGTGCTGTGTTGAGCCATCAGAAAGCAGAGATCTCCACACCCCAAAA
ESTD- CB24	145 A ---				ACCAAGGACCAGACAGCTCTCAGAGCAACCTAGCCCCATTACCTCTCCCTTCCAGAGGACCTGAA AAACGTGTTCCCAACCCAGGTGCTGTGTTGAGCCATCAGAAGCAGAGATCTCCACACCCCAAAAG GCCACACTGGTATGCTGGCCACAGGCTTCTACCCCGACCACGTGGAGCTGAGCTGGTGGTGAATGG GAAGGAGGTGCACAGTGGGTGAGCAGACAGACCCGACCCCTCAAGGAG
ESTD- CB25	146 A G ---				GTTTTCTTCAGACTGTGGCTCACCTCCGGTAAGTGAGTCTCTCTTTTCTCTCTATCTTTCGCCGTC TCTGCTCTGAAACAGGGCATGGAGATCCACGGACACAGGGCGTGAGGGAGCCAGAGCCACCTG TGCACAGGTAG/CCTACATGCTCTGTCTTGTCAACAGAGCTTACCAGCAAGGGTCTCTGCTGCC ACCATCCTCTATGAGATCTTGCTAGGGAAGGCCACCTTGATGCCGTG
ESTD- CB27	125 C T ---				TTTTCTGTTTCCCTGAAGATTGAGCTCCCAACCCCAAGTACGAAATAGGCTAAACCAATAAAAAAT TGTGTGTTGGGCTGGTGCAATTCAGGAGTGCTGTGGAGTTCGTCTCATCACTGAC[C/T]TATCTTC TGATTTAGGGAAGCAGCATTCCTTGGACATCTGAAGTGACAGCCCTCTTCTCTCCACCCCAATGCT GCTTCTCCTGTTTCATCTGATGGAAGTCTCTCAACACCATTTCCATAAC
ESTD- D4S338	59 A T ---				TTTTCTGTTTACCTGTTCCAGATCCTCAGAGGAATCCCTATATATGGCAGGTATATGA[A/T]ATGTA TTTCTTAAACAATAAACTTGAAAGTCCAAAATTACTCTTGATCCATGGACTGCAGAAATAAATGTTA TTTTAGCTGTCAGAAAAACAATACTAATCTTGACATATGTTTCATCAGAGCCCTTGGGTGACCAGGTGA TTGCCAATAAGCAGTAATATTTGAGAGGAATCTTGTTTCAATGCAGTAG
ESTD- CYP2D6	61 A G ---				CAGGCCAGCGTGGTCGAGGTGGTCACCATCCCGGCAGAGAAACAGGTGACGCCACCACCTATGC[A/G]CA GGTCTCATCATTTGAAGCTGCTCAGGGTTCCTTGGCCTGAGCAGGGCCGAGAGCATACTCGG
ESTD- D11S1873	40 A C ---				AAAAAACATTTTAACACCTTTTCAATCATATACACCATA[A/C]ATTTCCATTTTTACATAAAGTCA GTTTGAGCTGAGTTTTCCAATTACTTGCAATCTAAAATGTCACTAAGTAACTGATTAATGCAAGTTCAACAG ACAACCTTCCCAAGCATCTACGATCAGAAAGGTCAAAATATTACATATCTGGATTAAATATTGCCCA TACTGCATGTC
ESTD- D17S33b	169 C T ---				CATCCCCAAGCCCATCCTTAGCCACTGGCATTTTTTCCGCCCTCTGCAGATACACTCAGGGCCGT CATGCTGCACACATCCAGGGGGGCCCTACCTTTGTAGTCCATGGGAAAGGCTCCTCTGGGGCGGTG GGGTGTGTGGCTATGTGTGGTCTGTGTAG[A/C]TGGGGGCTTTGGTTTCAGTTGCATTTGCGGTT ATTGCAGATTGCTTTGCTTTCACCTTGAGCGGAGCTC

ESTD- D17S33a	75 C T ---	---	CATCCCCAAGCCCATCCTCTAGCCACTGGCAATTTTGGCGCCTCTGACAGATACACTCAGGCGCGT CATGCTG[C]/ACACATCCAGGGGGCGCCCTACCCTTGTAGTCCATGGAAAGGCTCCTCTGGGGCG GTGGGTTGTGTGGCTATGTGGTGTCTGTGTAGACGGGGCTTTGGTTTCAGTTGCACATATGGCGTT ATTGCAGATTGCTTTGTCTTTCCACCTGAGCGAGCCTC
ESTD- D18S8	133 A G ---	---	TTTGAGACCACCCCTGGCCAACATGGCGAAATCACATCTCTACCAAAATTACAAAATTAGCTGGGTGT GGTGTACATGCCTATCGTAATCCAGCTACATCGGGAGGCTGAGGCAGGAGAAATTGCTTGAACCC[A] /G/GGAGGCAGAGCTTGCAGTGAGCCAAGATCACACCACTGCACCTACAGCCTGGGTGACACAGTGGGA GACTCTGTCTCAA
ESTD- D3S11	44 G ---	---	AACTGATTAGAACCTGAAATACATATTTATCTGAAAAAGTCGAGTTATTGGCTCATCACATTGG AATTTTGCATCATTAATAAAATCCAAATAAGTACACTGTAATAAGAAATTTAACAGAATATCATTTGT TTATTCAAACTATTTATCAGCTAATTTTATTGTTAGCCATATAAATCTAAAGCATGTTTCTGAAAG TTTA
ESTD- D3S12	37 A G ---	---	AGGTTCCACATTATTGCTGATGTTGCTGATGTTTCC[A/G]GGAGCCTTGATGTCATTCTGTATCTCCT CAGGTATCCACCCTTGAGACGTACTTTTCAAAAACCTCTACAGCCGTTGTTGTTAATTAATCAAGGT TGAACATAAAGTA
ESTD- D3S2b	247 C T ---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCCCTGC TGAGTCTTATTCAAAACGTACAGCCATTTATGCCACCTGAAATATGGCAGGTTACAGCTGTATCCCC AGAAGTGAACATACCTGCTCCTAGAACCCAGAGTCATACCTGATGTTCTGTTTCGGTCTTACGATGG CAGGTATGAAATATAATAATCTGTCTCTTTATTTGGAAGGATGC[C]/TGGT
ESTD- D3S2a	248 G ---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCCCTGC TGAGTCTTATTCAAAACGTACAGCCATTTATGCCACCTGAAATATGGCAGGTTACAGCTGTATCCCC AGAAGTGAACATACCTGCTCCTAGAACCCAGAGTCATACCTGATGTTCTGTTTCGGTCTTACGATGG CAGGTATGAAATATAATAATCTGTCTCTTTATTTGGAAGGATGCCGGTATGT
ESTD- D7S399	83 A G ---	---	TGAATCTTAATTGCTATCTCTACAAATGTATAAATCCTGAATCTGACATCTAGCCACCTCCATAGAT AACTGCTAGAGACCC[A/G]GTCTCCTACATCATCCTTTTCAAAACATTTTCATCCATGGACTCCATAC TAGAATATTTGAAGAAACAACATGACAAACATTTTC
ESTD-DMb	146 A C ---	---	GTGGGACACCGAGGGCTCCAGGCTGGGGCTGCACGTGTGGCTCAAGCAGCTGCTCGGCTCCACT TCCATGGGTGTGGGGCTGGACCTCACTGTCCCTGGGAGAGGAGGAGGAGTGGGGAGGGAGACA GAATGCTGATT[A/C]TCTGTGTGGAGAACCAAGAACCTTCTGGCCTGTGGGTAGGGGCAGCTGCTTCCAAG ACCTCCTGATTGTAGGAAGGGGAGCAGCAGAGCGAAGAGAACAGAT
ESTD-DMa	66 C G ---	---	GTGGGACACCGAGGGCTCCAGGCTGGGGCTTGACAGTGTGGCTCAAGCAGCTGCTCGGCTCCAG[C] GJTCCATGGGTGTGGGGCTGGACCTCACTGTCCCTGGGAGAGGAGGAGGAGTGGGGAGGGGAGA CAGAATGCTGATTATCTGGTGGAGAACCAAGAACTTCTGGCCTGTGGGTAGGGGCAGCTGCTTCCAAGA CCTCCTGATTGTAGGAAGGGGAGCAGCAGAGCGAAGAGAACAGAT

ESTD- DRD1	154 C T ---	---	TCCCAGCCCTATCGGTCTATTTGGACTATGACACTGACGTCTCTCTGGAGAAAGATCCAAACCCATCAC ACAAAACGGTCAGCACCCCAACCTGAACCTGCAGATGAATCCTGCCACACATGCTCATCCCCAAAAGCT AGAGGAGATTGCTCTGGGGIC/TTJCGCTATTAAAGAACTAAGGTAC
ESTD- DRD2	144 C ---	---	TCTGCCTTTGGTGCAGGAGGCTGCCCCGGAGCCAGGAGCTGGAGATGGAGATGCTCTCCAGCACCA GCCACCCGAGAGACCCGGTACAGCCCCATCCACCCAGCCACCCAGCTGACTCTCCCCGACCCCG TCCCACACGGTCTCCACAGCACTCCCGACAGCCCGCCCAACCCAGAGAAGATGGGCATGCCAAAG ACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATG
ESTD- DRD3	109 C T ---	---	AAGACGATGGCCAGGATGAGCGCGCAGTAGGAGAGGGCATAGTAGGCATGTGGGGGGCCTGGCTGG CACCTGTGGAGTTCTCTGCCCCACAGGTGTAGTTCAAGGTGGC/C/TTACTCAGCTGGCTCAGAGATGCC ATAGCCCAGAGGGAGGTGGTGATGCCAAGGGGCTTCCTGTGAGGAGA
ESTD- ERBB2	93 C T ---	---	TCCTTCAGGATCCGCATCTGCGCCTGGTTGGGCATCGCTCCGCTAGGTGTACAGCGGCTCCACCAGCTGG GGTGAGGGGGTGGTGGGTCAAGTGC/C/TTGGGGCCGGTGCAGACCCACCGGGGCTGGGAGGACTTCA CCCCGCCTCACTCCGTTCTCTGCAGCAGTCTCCGCATCGTGACT
ESTD- ETS2	43 A G ---	---	ACTCACAGTGCTTTTAAGTGAATAATGGTCGAGAAAGAGGCACC/A/GJGAAAGCCGCTCCTGGCGCCTG GCAGTCCGTGGGACGGGATGTTCTGGCTGTTTGAGATTCTCAAAGGAGCGAGCATGTGCTGGACACA CACAGACTATTTTAGATTTTCTTTGGCCTTTTGCAACAGGAACAGCAAAATGCAAAAACCTCTTTGAG AGGGTAGGAGGGTGGGAAGGAACAACCATGTCAATTCAGAAAGTTAGTTTG
ESTD-F9	111 A G ---	---	AGATCCTGATGATTTTCTCTATTTTCTAAATGTTTACAGTTTGAAGTTTAGATTTATGCCCA TGCTCCATTTTGAGTTAATATTGTGTAAAGTATGATGTTTA/A/GJGTCAAACCTCATTTTTTTTCC ATAGGTATGTCCAATTTATCCAGCACAAATTTGTTAAACAAAAAAC
EST68787 5	144 A ---	---	CTTCCTATGGGATTTGACTTTATTTCTCCATTGCTTACCTTTTACAGGTGTTAATATAGTGAAAAG GAAGCTTGAGCTCATGACAAATTTGAAGCTGACAATTACACAAGAGGAAATAAATTCACAGTCAA AGAATCAAGCACTTTTCGAACATTTGAAGTTGTTTTGAAGTTGGTGTACCTTTTAATTACAACCTAG CAGACGGAACTGAACCTCAGGGTAAGAAT
ESTD- GODH	200 C G ---	---	CGCAGACCGGTCAAGTGGGGTGGGAGTGTGGAGGGAAGGAGGAACTGGGGGTTTAGGGACT TTCCGGGTGACTTTCCCGTTCTGTGCTTGCAGAGAAAGGGGGAGAACACAGAGCCAACTGGCTAA GTGAAGGGACCTCTGGTGCACCCGTGTGTTCTGCTGCCCTGTTTCAAGCTGTCTGTCTGCCGCAGT/C/ GJGACTCTGTCCCGGAAATCCGAGAGCT
ESTD-GCK	88 A G ---	---	GTTTTATGCATGGCAGCTCTAATGACAGGATGGTCAGCCCTGCTGAGGCCACTCCTGTGTCACCATGAC AACCACAGGCCCTCTCAGGA/A/GJACAGTAAGCCCTGGCAGGAGAAATCCCCACCCACACCTGGC TGGAGCAGGAAATGCCAGCGGGCCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGACACAGTC ACCTGCAGCCTAATTACTCAAAGCTGTCCCCAGGTACAG

EST34088 2	62 A T ---	---	GTGGGGCAACAGTGGAGAGAGGGGCCAGGGTATAAAGGGGGCCACAAAGAGACCGGCTC[A/T] AGGATCCCAAGGGCCCAACTCCCGCAACCACTCAGGGTCTGTGGACAGCTCACCTAGCTGCAATGGCT ACAGGTAAG
ESTD- GNAT2	56 A G ---	---	GACCCCTAGTACCTCCCTAGTGAGCAAGATGTGCTCCGATCCAGGGTCAAAACACAC[A/G]GGCATCA TTGAAACCAAGTTTCCGTCAAAGACTTGAATTCAGGTAAGTGCATGGTTCCTAGG
ESTD-HT2	154 G ---	---	GGGCTAAATTTCCGAGCAACTTTCATAGACTGTTTATTGACTTGACAGGATTGCTAGAGATAGG CAGGGAGAGGAAGATGTGTTACAGTTTGTGAGAGAGATAAAAGATAACCTGGGTTTCTGTGC TTTGCTTCTCACATCCCTGGGGAGTTAATAGCTGCAATTTTCAAGAAGCGGTATACAGGGACAGCA AAGCGCAGTCGTGAAGTTTCAACAAGACACACCTT
ESTD-HT5	149 C ---	---	AACACAAAGCCCCAGCGAGAATTGAACCTCGGACCCCTGGTTTACAAGACCAGTGCTCTAACCCCT GAGCTATGGAGCCCTGCTGCTGTTGGTTTCTTCTTTCATCTTATAGATTGATGTTATGCTCCTA GCATTCGGCTACCGAATAGGATGTTAGCTTGAGTAAATTCAGGATATTCTCCTACAAAATGAAA ACATTTCTGCTCTGTAAATCCCTCGAAAAGTTCT
EST37382 5	124 A G ---	---	CTGAGAAACAATTGGCAAAATAAAGGAATTTGGGACTCCCCACCCCTCTTCTCTCTCCCTTGGG CTTTGAGTCAAAATTGGCCTGGACTTGAGTCCCTGAACCAAGCAAGAGAAAAGAG[A/G]CCCCAGA AATCACAGGTGGGCACGTCGGTCTACCGCCATCTCCCTTCTCACGGGAATTTTCAGGGTAAACT
ESTD- IGFBP1	43 C T ---	---	ACCCAGTGGAGCCCGCTCATTCGACGGTCTTGGCAGGAGTG[C/T]CTGGGAGAGAAGGAAGATG TTCCAGGACACATAGCTTAGTGGAGACTC
ESTD- IGHV4-6	120 C ---	---	TTTACTATTTCAATGGATACAGAAATTGTTGGGAGTCACATATATCCATGAACAAAAATTGAGATTT CAGTGTAAAGTAATGTTGCCCTACATTGTGTGAGTACGGGGCAGTGGTGGATCCGAGAGTGTGGTGGG TGCACGGACATAATGATTCAGAAAGCAATATGGAAGATGAGTATCTATGGATACGAACTGAAAGT ATGTAATACTTCACAAAAATACTAATAACGGAGTTGAATATAAAACCCCA
ESTD-IL1A	110 A G ---	---	CAAAGTAAGCACCCCAATAATGTTAGCTATTACTATCATATTATTATTATTTATTTTATTTT AGATGGAGTCTGGCTCTGTCAACCCAGGCTGGAGTGCAGTGGC[A/G]CAATCTCGGCTCACTGCAAGCT CTGCCTCTGGGTTTCAIGCCATTCTCTGCTGCCCTCAGCCTCCGAGTAGCTGGGAATACAGGCACCGGCC ACTGTTCCCGGCTAATTTTGTATTTTAGTAGAGACGGAGTTCACCGT
ESTD-IL1B	99 A G ---	---	CCACTTACAGATGGATAAATGGTACAATGAAGGGCCAATAGCCCTCCCTGTCTGTATTGAGGGTGT GGGTCTCTACCTTGGGTGCTTCTCTGCCCTC[A/G]GGAGCTCTCTGTCAATTGCAGG
EST74082	134 A T ---	---	TCCAGGGTGGCTGGACCCAGGCCCCAGCTCTGCAGCAGGAGGACGTTGGCTCGTGAAGCATG TGGGGGTGAGCCAGGGGGCCCCAAGGCAGGGCACCTGGCCCTCAGCCTGCCTCAGCCCTGCCTGT[C/A] TJCCAGATCACTGTCTCTGCCATGGCCCTGTGGATGGCCCTCTGCCCTGTGGCGCTGCTGGCGC CTCTGGGGACCTGACCCAGCGCAGCCCTTGTGAACCAACACCTGTGCG

EST45311 0	151 C T ---	---	---	GGCCTCCTCTCTCCAAATCTGTCCCTATAGTTTCTCTATTAAGTGAACATACATGCATTCITTTAGT GGATAGATGCACACAAACACACAGCCATTATGGGAAGGATCCACGTGTGTGGCCATATTGTAACA CATTTTCTGCAAAATC/TACCTCTTTCAITTAACAGCCCTTATTCAATGGCCCTTTTCTCTTTTCAGTA GTACATACACATCTGTGTCAATTTGTTGAAT
EST65258 8	80 A G ---	---	---	TGCCCCATCAGCGGCGGAGACATGGCTTGCCACAGCTCTGAGGATGTCACCAATTAACAGAAAT CCAGTTATTTCC/GJCCCTCAAATGACAGCCATGGCGGCGGGTCTCTGGGGCTCGTCGGG GGACAGCTCCACTCTGACTGGACAGCTTTTGCATGGAGACTTGAGGAGGGGCTTGAGGTTGGT GAGGTTAGGTGCGTGTTCCTGTGCAAGTCAGGACATCAGTCTGATTAA
EST38216 3	26 A T ---	---	---	ATGCAGGATGAAGGTGGACAGGGAGG/TJGAGGGCCAACTGTCTCCAGGGGCTGCAGATGTCG CTGGACTATGGGTTTGTGACCCCACTGACCTCCATGAGCATCAGGG
EST62782 ESTD- KRT10b	149 G T ---	---	---	ATACTAGTACAAGTGGTAATTTTGTACATTACACTAAATATTAGCATTTGTTTAGCATTAACCTAA TTTTTCTCTGCTCCATGCAGACTGTTAGCTTTTACCTTAAATGCTTATTTAAATGACAGTGGAG TTTTTTTCTCTC/G/TJAAGTGCCAGTATCCAGAGTTTGGTTTGAACCTAGCAATGCCTGTGAA AAAGAACTGAATACCTAAGATTCTGTCTTGGGGTTTGGTGCATGCA
ESTD- KRT10b	183 C T ---	---	---	CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTACCCTTTTGGCAATATT AAAGGAAGAAATGCATTTAAAGTAAGTAACTGCTAAGGTTTTTCCATTAAACCACCTATTACTTCTAAG AGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGTCTTTTAAATAGT CTCTGCCAGATACATCTCCCTATATAAGTTATAACCAGTATTGATA
ESTD- KRT10a	133 A G ---	---	---	CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTACCCTTTTGGCAATATT AAAGGAAGAAATGCATTTAAAGTAAGTAACTGCTAAGGTTTTTCCATTAAACCACCTATTACTTCTA[A/ G]GAGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGTCTTTTAAATAGT TCTGCCAGATACATCTCCCTATATAAGTTATAACCAGTATTGATA
ESTD- KRT8b	231 C T ---	---	---	ACCCCTACCCCTCCCTTAGCCGTGGGAAGCAGGAAATCTCTCTCCAAATCCATGAATACACATCGG ATTGGACACCTTGAGAGTCTTAACAGCAGGCGCTGACATGAGACCTCAGACAGAACTTTCTAGAGTT TGCTAGAGGTCAAGGGTCAAGACTAAAGAGGGGCCAGAAATGTTAAGTACAAAAGTGAGGCCCATAG GCTGCCATCTCTCCCGTCTCAGGTTTACCA[C/T]GTCAACATTGACACA
ESTD- KRT8a	21 C T ---	---	---	ACCCCTACCCCTCCCTTAGCC[C/T]GTGGGAAGCAGGAAATCTCTCTCCAAATCCATGAATACACATC GGATTGGACACCTTGAGAGTCTTAACAGCAGGCGCTGACATGAGACCTCAGACAGAACTTTCTAGAG TTTGCTAGAGGTCAAGGGTCAAGACTAAAGAGGGGCCAGAAATGTTAAGTACAAAAGTGAGGCCCAT GGTGCTCTATCTCTCCCGTCTCAGGTTTACCACGTCAACATTGACACA
EST75099 6	82 C T ---	---	---	CACCTGTGTGTCTAGATCTCCTCAGTGGCGCCCTCTACTGGGTGACTCCAACTTCACCTCCATCTCA AGCATCGATGTCAA[C/T]GGGGCAACCGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCCAAC CCTTCTCCTTGGCCGTCTTGAGGTGTTGG



ESTD-LF79	142 A G ---	---	GGGTGATTTGAGGCTCAGTTAATATTTCAAATTTAAACCGTAGCAAACTGCATTGGTATTTAGA AAAAATAAAAAATTTCCAATATGATGTGCTGTGTTATACCTGGCTCTGCCATGCAGCATCATAGCCTGT GGGAACC[A/G]GGAGGGCTCCCTTACCACCCAGA
EST35879 9	142 A C ---	---	GAGATCGGTGTGTGAGTTATTAGGCATGTTACCTGTGATTCCTCCCAATCTTGTGCGTTCCACCCGATG GAATGCCGGCAAATCCTGACACGTGTGCACCCAGGCTGTACCCAAATAGGTGAACATGGCTTCGAG AGAGTTG[A/C]ACAGATTCTCTGGAAGACACGACGCGGGATGGGGCAGGAGAAGAGCTGCCTGGATGA A
ESTD-LMP2	35 C G ---	---	TACACACTTTCCTTACCCATTCACTGAAAACGACT[C/G]GCAAACTGGAGCCTTGTAGGAATGGAGT TGACCTTCCCCAAAAGCCACTATGATAAGCTATTGGTG
ESTD-LPL	113 C T ---	---	TGTCAGTGTCCCTAGGGGCACCTCACCACTCCACGCTTCTCAGCTCTGGCCTGTCTGCTGCCTGCA AGGTTTTGCTTAATCTCAATTCATGTCTCTTCATCTTTTAG[C/Π]AGCTGTGGGTTTTTGTGTTG TTCTTCTGTTTTTGTCTTAGTATCTGACTACTTTTAAATATAAAAGAGATGTATCTAAACAAAATAG AGATTGTTATCAGAAAGTTCACAACATTTATTAATAATTTTTTACCTG
ESTD-MCC	45 C T ---	---	TTGTCAGGAGTGTGCTGATGCTGCTCCCTCCCGCTCTGCTCCCTAGC[C/Π]GAACCTCAGGACAAGTGC AG
ESTD-METH	118 C T ---	---	CATCCATGTAGGAGAGCCCTTAGTCAAGTGAATGCTAGGAAGCAGTAAAACAGCATGCATCCCCGAA TCTCAGGAAGTCTGTCTTTCCAAAGGTTTGGTCTAAGTTGCTGATTACC[C/Π]GGATTTTCTGACG ATCTTCAACTGCTAGAGCATCTGGTTCTGTTTAGCATGG
ESTD-NF1	25 A G ---	---	ATTATCCAGATGAATTTACAAAAC[T/A]GTACCAGATCCACAGACTGATATGGCTGGT AACATGGACTTGATATTTGTACAAAAAAGTTTATTTTCTAAAAAAGAAAAAGAGAAA AAATTTAAAGGGGTACTTATATCCACACTGCACACTGCCT[A/G]GCCCCAAACGCTCTTATTGTGGT AGGATCAGCCCTCATTTTGTGCTTTTGTGAACCTTTTGTAGGGGACGAGAAAGATCATTTGAAATTCT GAGAAACTTCTTTAAACCTCACCTTTGTGGGGTTTTGGAGAAGGTTATCA
ESTD-NFKB1	107 A G ---	---	TGTCCTAGGCCCCAGCCCTGCTTGTCTCCCTGGCTGTATCTTC[A/G]TACTGCAAGAGAACACA GACAT
ESTD-NPPA	45 A G ---	---	GTGTTTTCTTAATCTTTCCAGGAACACAGTACCATAATTTCTTTCTGCAGGCATATAGAAATTTGGT GGGTTTTCTTTATGTAGGGTGATATTGGATACTTTTGTGTTGATTATATATAGCAATTTGAGGG ACAAACCAGATAGGCAGAAATGGGCTTGAATAGTAGATGCTTATTAACCTTGGCAATAGCAATTG[C C/T]ATTCCTGTGGTTTTTAATAAAAT
ESTD-NPAS	202 C T ---	---	GCCACCACCCACCCACCCAGCACACCTCCAACTCAGCCAGACAAGGTTGTGACACAAGAGAGCCC TCAGGGGCACAGAGAGAGTCTGGACACGTGGGG[A/G]GTCAGCCGTGTATCATCGGAGGCGCCGGG CACATGGCAGGGATGAGGGAAGACCAAGATCCTCTGTGTGGGCCCAAGTCTCTAGACAGACAAAAC TAGACAATCACGTGGCTGGCT
ESTD-PAI1	100 A G ---	---	

ESTD-PAR	120	A	---	---	CTCTTCAGGAACACCAGTCTCTTACCAACACGACTTATTGCTGTCCGAGAGGTACAAACCCGTAGA ACTTCTTCCTAACTGTAATTAGTTAAAGGAATCGAAACTGGCTCTGAAGACATGGAGATACTGCCT AATCGACTGGCTTTCATTAGCTCTGTGAGTGTCTTTCACATTTCTGTGTTCTAGAACGTTTTTCTAG GACTGGCAGTTTAAGCTTTCACTTAGGCTTCTGTATACCCATGCC	
ESTD- Per/RDS	74	A	G	---	ACCTACAGACGTCGCTGGATGGTGTGTCACACCCGAGGAATCTGAGAGCGAGAGCGGCTGGCTG CTGGAGA/JGJGAGCGTGCCGGAGACCTGGAAGGCT	
EST68308	5	29	C	T	---	GGAAAGAGATTAAAGAGCTTGATTTGGA/C/JAATCTGGTCTTTGAGTGTGGAAGAGTTCATGTC TCTGCTGAGTTACAACAGAAATCCTTTAGTACAGCGAGTAATAGATATATTCGACACAGATGGGAAT GGAGAAGTAGACTTTAAAGGTAAGAAAGTAGTATTTTTTA
EST54045	6	39	A	G	---	GGAAATTTAAAAATATTTTAAAAACCTCCATTTTGCTT/JGJTCCTTTAGTGAAGATGATACCTGC AAAAGACATGGCTAAAGTTATGATGTCATGTTGGCAATTTGTTCTTACAAATCGGATGGGAAA TCTGTTAAGTAAGTACTGTTTGGCTTGGAAATGGATTTTAAATGTTGACTTTATCAT
ESTD- PXMP1	88	A	G	---	---	ATGAAACATGGTCTTTAATTTATGATATGTTTGTATAGCTATCTTAAAGGGCTCTTTTTTTTA ATGCAGAAAAGAGGGGAAAAG/JGJGAGCGAGCTGTGGTGACAAGGTGTTTTCTCAAGGCTCATAC AGATTCGAAAATCATGTCCTTAGAACATTTGTAAAGAGGTAAGTCTTATGAAATATAATCTT
ESTD-RDS	127	A	---	---	---	CCCGAGGAATCTGAGAGCGAGAGCGAGGGCTGGCTGCTGGAGAAGAGCGTCCCGAGACCTTGAAGG CCTTCTGGAGAGTGTGAAGAGCTGGGCAAGGGCAACAGGTGGAAGCCGAGGGCGCAGACGCAGG CCAGGCCACAGAGGCTGGCTGAGGGCCCTGGGGCCCTCCCTCCGAACTGAGAAATAGTGCAT CCAAGAAACGTGGATCTCCCCCTCATCCAACTCCGAAAGTCTGAA
ESTD- s14544	94	G	T	---	---	TTGGGAAGTTAGAGCCTATATTTAAATACGGAATTAAGGCGAGGACACAGAGGCTTAATTGAAAA TATCCCAAAGTTGAAATGTCTCAGTTC[G/T]CTGTGTGGTTAGATGCAGGATTTATATGATCCGTTA ACCTCT
EST52908	0	45	A	C	---	ATCACAGGTCTCTGGTCTCTGGCCATCATTTCTGGGAGAGATGG/JACJTGTTGGTCTGCAAGCCCTT TGCAATGTGAGATTTGATG
EST19590	55	C	T	---	---	AGGAGAAGCTGAGGAGGGGAAGAGAGACAAGAATGACATTGATGAGTGAAGATGT[C/J]GGCTCAG GATGCCGGAAAATGAC
EST76136	39	C	T	---	---	TGAAGCTTCTGCCCAGCTTGCAATGTTTCTAGGAGAACCT[C/J]GCGTCATACCTTTATCTATAGCCTT CCCCTAGGTCCT
ESTD- SPTB	176	C	T	---	---	TGAAACACCTGTGGTCCGGAGCCAGTTGTGTTTCTCTGGAGCCTGAGGAGTTTGTGTCTGTGTG CAGTCCCCCGGCCACCTGCTGGTTGAGCCTGGACATACACCTTACCTCCTTTGGCCCGGAGAAGAC ATTTACCCACCTGGCCATGTCCCTGGCCTGTTGTGCACA/C/JCCTCTGTGAAGACCCCAACCCCTGC CTCCCCACCCAAAGCCAGTTTCTTAGCAAGGGCAGGAC

ESTD-TAT	224 C	---	---	AAATGGTCAGGACCCTGATCCACAAGAAGTGGTACCATTTCATCAGGGCCATCAGTTTCATTCAGCTC CCATGACTGGGATGCTAAGTCAGCAACTGAGTTTCATTCATCTTAAATGACTTGTGGACAGGATCA ATTTCCCTCTACCTAGAACGTTTGTACAACTTTTCTTCCAGTATGGATGGATTATGATGGGGGG GAGAAAGCAAAATTTAAATAGGACCCATGAGACACATCA
ESTD- THRb	125 A C	---	---	TGCGGCCCTTCCCTCGGAGGGTAGACTTCTTACTTGGCTGTTGATTTCCAAAGAGAAAGAGTCCCAAG CACAGAAACAGAAAGTTGCAGATCCCATGAGGCCAGTCTCAAAATCACACAGGATC[A/C]TTCAT CCAACTGGATTGGCCCAACAAGTCTGAGTGGCAGCCAGGACTCAACGGTCCCTGTAGATGGG TAGTGAAGTTTTCATCTCTGTCAGCTTCTGGATTCTTGTCCACCGCAACAAGAGTCTATGTC CAAGGAGAAAAAGCTGGTCTTCATGGGCAAAATCAATGTCCTCCAGATTTCAGTATCCCCAA GCAGTGCATCCATTGACACATAATAATGCATCCAGACAAGAGGTCATAAATATTGATGTCGTTAAA CATGGGTGTGATCCATTTTCATTTGGCCATAGGTCCCTATGGGGATGACA
ESTD-TYR	122 G T	---	---	AGTAGTGGATGAAGCTAACAGCCTCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AAACTCCAGAAATCCTAATCAGTCTGTGGTCTAACAAATGCCCTACTCTCTTATGCAATTAGTATCACAA AACCACCTGTTGAATATAATAGATTGAGTTATTAACGTGATTTTCTTTCACCTTATTACCTTCTTCT AATACAAGCATATGTTAG[A/C]ATTAAAGTTCTAGGCATACTT
ESTD- TYRP1	222 A C	---	---	AGTAGTGGATGAAGCTAACAGCCTCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AAACTCCAGAAATCCTAATCAGTCTGTGGTCTAACAAATGCCCTACTCTCTTATGCAATTAGTATCACAA AACCACCTGTTGAATATAATAGATTGAGTTATTAACGTGATTTTCTTTCACCTTATTACCTTCTTCT AATACAAGCATATGTTAG[A/C]ATTAAAGTTCTAGGCATACTT
ESTD- VB12	148 C T	---	---	TTCCCAAGGCCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTCTATTACA GGACACATGGATGCTGGAATCACCAGAGCCCAAGACACAAGGTCAAGAGACAGGAAACACCCAGTG ACTCTGAGATGTCA[C/T]CAGACTGAGAACCACCGTTATATGTTACTGGTATCGACAAGACCCCGGGC ATGGGCTGAGGCTGATCCATTACTCATAT
ESTD- VB12b	148 C T	---	---	TTCCCAAGGCCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTCTATTACA GGACACATGGATGCTGGAATCACCAGAGCCCAAGACACAAGGTCAAGAGACAGGAAACACCCAGTG ACTCTGAGATGTCA[C/T]CAGACTGAGAACCACCGTTATATGTTACTGGTATCGACAAGACCCCGGGC ATGGGCTGAGGCTGATCCATTACTCATAT
ESTD- VB12a	74 A G	---	---	TTCCCAAGGCCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTCTATTACA GGACAC[A/G]TGGATGCTGGAATCACCAGAGCCCAAGACACAAGGTCAAGAGACAGGAAACACCA GTGACTCTGAGATGTCAACCAGACTGAGAACCACCGTTATATGTTACTGGTATCGACAAGACCCCGGGC ATGGGCTGAGGCTGATCCATTACTCATAT

EST58607	0	105 A G ---	---	CTCTGGATGGGTTACAGGTGGCAGGCACAAAGCCAGTCCATCCTGTAGTCATCATAGTTGTTGGCTCC CAAGTTGCTCTCCTCACTGGAGAAACAAGGACAGCCACAC/GTGGCGGGGATGGCCGGGAGTTTC TGGTTGGCCACGGCTGTGGCTCGTTGTGAACGGTAGCCTTTGCGGTTGGATGCCTAAACCTTTGT TTCTTGCCAAAGGAGGGGGGTGCCATGCCTGAGATGTAGATGCGGCC
ESTD-VWF	36	G ---	---	AGGTAGGAAAGCAAGAGTTGATTAGTGAAGGAGAGAATGGACCTACCTTCCACACTGTCTTTGG TCCCCTAGAGTCTG
EST71770	6	189 C G ---	---	AGCACCCCTCAGCTCAAGCCTCAGCACCCAGATGCTGTTCTATAAGGATGACGTGCTGTTTACAA CATCTCCTCCATGAAGAGCACAGAGATTATTTATCCTGAAGTCGGATCTATGACTCAGGGACAT ATAAATGTACTGTGATTGTGAACAACAAGAGAAACCACCTGCAGAGTACCAG/C/GTGTGGTGGA AGGAGTGCCCAAGTCCAGGGTGACACTGGACAAGAAAGAGGCCATCCAAGG
ESTD-TNFab	152	A G ---	---	TTCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGGTCCCCAAAGAAATGGAGG CAATAGGTTTGGGGGCATGAGGACGGGTTTCAAGCTCCAGGGTCTACACACAAATCAGTCAGTG GCCAGAAAGACCCCTC/G/GAATCGAGCAGGAGGATGGGAGTGTGAGGGGTATCCTTTGATG CTTGTGTCCCCAACTTCCAAATCCCCGGCCCCGGGATGG
ESTD-TNFa	88	A ---	---	TTCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGGTCCCCAAAGAAATGGAGG CAATAGGTTTGGGGGCATGAGGACGGGTTTCAAGCTCCAGGGTCTACACACAAATCAGTCAGTG GCCAGAAAGACCCCTCAGAAATCGAGCAGGAGGATGGGAGTGTGAGGGGTATCCTTTGATGCTT GTGTGCCCAACTTCCAAATCCCCGGCCCCGGGATGG
EST52418	6	113 A G ---	---	CAAATTACAGGGTCAACTGCTATGATGTGTTGGAGCCCCAGTCACCCCTTGGTGGCTACAAGATGTG GGGAGTGGCCGGGAGTTGGCGAGTACGGGCTGCAGGCATACACTA/GAAGTGAAAACTGTAGATG TGG
EST13586	3	89 A G ---	---	CCCACCTATTGGCCAGCCCCAGGGACAGAGCTGATCCTTGAACCTCTTAAGTTCCACATTGCCAGGA CCAGTGAGCAGCAACAGGGCC/G/GGGCTGGCTTATCAGCCTCCAGCCAGACCCTGGCTGCAGA CATAAATAGGCCCTGCAAGAGCTGGCTGCTTAGAGACTGCGAGAAGGAGGTGCGTCTGCTGCCTGCC COGGTCACTC
EST51976	7	123 A T ---	---	AGGCAGAACTGGGGCCCCATGGGGGGACGTGGAAGGCCACTTGAGCTTCTTGAGAAGGACCTGA GGGACAAGGTCAACTCTCTTCAGACCTTCAAGGAGAAAGAGAGCCAGGACAAAG/ATJCTCTCTC CCTCCCTGAGCTGGAGCAACAGCAGGAACAAGCAGCAGGAGCAGCAGGAGAGGAGGAGGAGGATGCTG GCCCTTTGGAGAGCTGAGCTGCCCTGGTGC
EST11458	6	140 A G ---	---	CCACCTTGGTAGTGCCAGTGTGACTCATCCACAATGATTCTCCAGTGTCTATCTTGTCTCGAGTTT CTCTGCCATGTTGCTATTGCAGGACGGACCTGTCCCAAGCCAGATGATTTACCATTTTCCACAGTGT CCC/GITTAACAACTTCTATGAGCCAGGAGAGATACGTATTCCTGCAAGCCGGGCTATGIG TCCCAGGAGGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC

ESTD- AT3aa	60 C T ---	---	AGACCTCAGTTTCCTCTCTGTAAAGGGAAGTTTGTCTTGATCTCCATGGGCCCCAGC[CT]AGCA CTGGTCCCTGTGAGTCTGTATCAGGTAGAGGAGATGGACCAGGTGAGAGGAATTTGAAAGGGCA TTGGAATTCAGAGCAAGAGACAGATATTAGAGCTGGGAAATGTGG
EST39852 8	106 C G ---	---	CGGCTTCCTTCCAGGTATTGTGCAGAAGGCCGAGATGACCTCTATGTCTCAGATGCATTCCATAAG GCAATTTCTTGAGGTGAGTACACCTTCCCCACTCTT[C]GJGGTACAGAAAGGAGATGCATGAACA GCAGGAACACGTGGAAAGGCCCTGTTCCAGTGTAAAGGCATGCAAAAGGCCCTCCACAGGCTGCTAT AATACAGCCCT
EST62448 0	112 A G ---	---	ACCTGGTGTGCTGGTGTGAGTGAACCTGGTCTCTTGGCATTCGCCGCCCTCCTTGGGGCCCCGTGG TCCTCCTGGTGTGCTGGGTAGTCTCTGGAGTCAACGGTCTCTT[A]GJGTGAAGCTGGTCTGATGGCA ACCTGGGAACGATGTGTCCTCCAGGTGCGGATGGTCAACCGGACACAAGGAGAGCGCGGTTACCC TGGCAATAT
EST36027 2	120 A C ---	---	AGTGACTTCCAAGGAATGGCTACCCAACCTTGCCTTCATGCGCCTGCTGGCCAACATATGCCCTCTCAGA ACATCACCTACCCTACCAAGAACAGCATTGCATACATGGATGAGGAGACTGG[A/C]AACCTGAAAA AGGCTGTCATTTACAGGGCTTAATGATGTTGAACCTTGTGCTGAGGGCAACAGCAGGTTCACTTAC ACTGTTCTTGATGCTGCTCTAAAAAGACAAATGAATGGGAAAGACAA
ESTD- COL2A1cc	112 A G ---	---	AGAAATATATAGTCTCAAACTGGCCATCTCCATTTTCAGTCCAAAAGTTATACAGCTAGACAACA GTGGTGACATACGTTGCTATTATGCTCTCTTCTCTGCTGACTT[C]GJGGGTGTTCAAGGTGAAAA GGTGAACAGGGTCCCGTGGTCTCCAGGCTTCCAGGTAAGTCAACTCAAGCATATACAATACTGCCT TTGGTCAGCCTATTGAGCTGTAATCACCATACCGTACCT
ESTD- COL2A1dd	97 C T ---	---	TGAGAGAACACCTAGTCTCCATCCTCTCTCTCAATGGCAAGAAAGTTAAGTGACCTATCTAGGGC AATAGACTGAGTTTGTCTGGGACCTGGAACA[C]TJGGACTTCTTCTACTGCAGCAGACAAGACTTA CCCAAGAGAGATTAAATGGCAAGATATACAATACAATTTTATTTGACCAAACTATCATGTGAACA GCATT
ESTD- CPT2	150 A G ---	---	GCCGCAATGCCCGGAGTTTCTCCAATGTGTGGAGAAGGCCCTTAGAAGACATGTTTGATGCCTTAGAA GGCAATCCATCAAAAGTTAACTTCTGGGCAGATGAAAAGCTACCATCCTCCTCATCATGAAAAC TGGAGGCGGGCAT[A/G]GTGCTCATGCCTGTAATCCAGCATTTTGAGAGGCTGAGGGCGGTGGAT CACTTGAGGTGAGGAGTTTGAGACCAACTGGCCAACAT
EST12274 0	135 A G ---	---	CCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTGCTTCCAATAGAGCCTTACCAAAGTGAT TACATAAAGAAGTCAAGTGGTTTACTCTCTCATGACCAAAATATCTTCCCTCCTTAGGATGAGGTG[ A/G]TAGTAATGACCGATGGGTGAGAACTGTTCTGTCACCATGGAGGATATACTAAGTGTGAAGA TAAATTCAGCCACAGAGCTTGCCAGATC
EST76807	91 G ---	---	ATGCTAAGGGGATCGGACATGAAAGGACCCCTGTGAGCCGATTGTCCTATCTCCAGCGGCCCTGTCTC CAGCTCACTCATCAATGGGGCCAGTCAGGCCAGGCACTGGGCTCGGAGGAGTCACTCACTGCCCCCT GCTGCCATGTGGACTGGTGCAAGTTGAGGACTTCTTG

ESTD-SSA1	111 C T ---	---	TTACATTTGTGGATTGTTCTTTTGTGTCAGCACCTTTTCAACATGATGTGATCCCATTTGTCCAAGTTTGCTTTGGCTGCCGTGTGCTGTGGGATATTTGAAAGAGATCTTTTGGCAGTCCAATGTCTAGAGATTTCCCAATGTTTCTTGTAATAGTTTCAATAGTTTGAGGCTTAGATTTAAGTCTTTAATCCATTGATTGATTCTGTGA
ESTD-RYR1	109 A G ---	---	CTTCGTACGGGAGGTACGTCTCCGCTCTTTTCATGGACATATGGATGAGTGTGACCATTTCCCCTGCTGACAGTATGACACGGCAGACTTGTCTACTATAGAGAGGGGAGCTGTGTGCACTCATGGCCGCTCCCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCGGCATGTCACACCGGGCAGTACCTAGCGCTCACCGAGG
ESTD-WT1	70 A G ---	---	AAGACCTACGTGAATGTTACATGTGCTTAAAGCCTCCCTTCCCTCTTACTCTCTGCTGCGATGTGCGAGATGTGCGAGTGGCTGGAGTAGCCCCGACTCTGTACGGTGGCATCTGAGACCAGTGAGAAACGGCCCTTCATGTGTGCTTACCCAGGCTGCAA
ESTD-F2 EST44438 7	100 C --- 62 C T ---	---	GATAAGTACACTGAGGCCCCCAGGAGGTTATTGCCTAGTAGCCCCAACTGTGCATGCACGCTTAACCTCTGCACCAATGGCTCCAAAGCCCCGTAGGGAACTGGGGGATCTAGGGGATGGTGAGGAATGGCCCCAGCCAGTCCCGCGGTGCTGGTCCCAACAGAGAGGCCGTGGAGGAGGAGACAGAGGATGGGGTGGATGAG
ESTD-PBDA	103 A G ---	---	GCAGCCAGGAGCCGCTGCACCATGCCCGCATAGATCGGACCTCAAGCTCGACTTCAAGGAC[CT/GTCTCTCCGACCTAAGCGAGCAGCTCAAGAGCCGAGCGAGTGGG
EST12839 3	122 A G ---	---	CCTTCTCATGCCCCAGATGGAATTCAGTCCCTTCAGGATCTGCCTAACCTGTGACAGTCTAAAGAGTCTGAGCCGTGGCTGGGAAGGGCAGGACTAATCCAAAGTCTCTACCCGAGCTTGTCTGCGCATACAGACGGACAGTGTGGTGGCAACATTGAAAGCCTCGTACC
ESTD-CTLA-4	48 A G ---	---	TGCAAAACACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCTCTTTGCTCCTAACATCTATGTACTGGATTATCTAAATGAACACACAGCAGCTTACTCCAGAGAGTCAAGTCCAAGCCATTGGCTATCTCAACACTGGTGAGTGATTACTTGAGTAAGGGAACCTTGAATGTTATTCAACTGGATTCCAGTAGGTTTCAGTTACTTATGAATATTATGATACTTAGCTTAG
ESTD-EST54419 8	96 C T --- 88 A G ---	---	ATGGCTTGCCCTTGGAATTCAGCGGCACAAAGGCTCAGCTGAACCTGGCTAGGCCAGACCTGGCCCTGCACTCTCCTGTTTTTCTCTCTTCATCCCTGTCTTTCGAAAGCAATGCAGTGGCCAGCCTGCTGTGGTACTGGCCAGCAGCCGAGGCATCGCCAGCTTTGTGTGTGATGATGATCTCCAGGCAAGCCACGATCAAGCAGTGCACACGGGTACAGATGGACCAGCTTCCACAGTGCACCATGAGATGGGCCATATACAGTACTACCTGCAGTACAAGGATCTGCCCTGCTCCCTGCGTGGGGGGCCCAACCCCGCTTCCATGAGGCCATTGGGACGTGCTGGCGCTCTCGGTCTCCACTCCTGAACATCTGCACAAAATCGGCCCTGCTTCTGCTAAATTTGAATGATATTGTGCTGTGGGACCTGAGCAGCTTTTATGGCACAAATGATCACTATTTCTTGACCCCTACTTACAGATCTGGGAGATGATTTGGGTTAGCGGTGCGTATGTGTCTATCTATAGTCCCAAGTGAA

ESTD-PS-1	99 A G ---	---	GGGGAGTAAACTGGATTGGAGATTTCATTTCTACAGTGTCTGGTTGGTAAAGCCTCAGCAACA GCCAGTGGAGACTGGAACACAAACCATAGCCTT/GJTTCGTAGCCATATTAATTTGGTTTGTGCCTTAC ATTATTACTCCTTGCCATTTTCAAGAAAGCATTGCCAGCTCTTCCAATCTCCATCACCCTTTGGGCTTGT TTTCTACTTTGCCACAGATTATCTTGTA
ESTD- B3AR	104 C T ---	---	GGCTGCCAGGGGTTCCGTGGAGGGGGCCCTAGCCGGGGCCCTGCTGGCGCTGGCGGTCTGGCCACC GTGGGAGGCAACCTGCTGGTGCATCGTGGCCATCGCC/C/JGGACTCCGAGACTCCAGACCATGACCAA CGTGTCTGACTTCGCTGGCCGACCGACCTGGTGATGGACTCCTGGTGGTGGCGCGCGGGGCCA CCTGGGCG
WI-567b	48 A G ---	---	TCTCACACTGACCCCTTACCTTCATCCTCACCTCTGCTGCCTTGGTT/C/GJAGCCCTCATCTCTTTTA CAGGATCCGCCACAGCATCCCAACTGATCTGGCCTTAGGCTCTTCTCCAAATCCATCTTCAAAAG GCTGCCACTGTGATCTTCCAAAGGTGATCTGATGCTACCATCTGCTTCAAGCC
WI-801c	58 G T ---	---	ATGGAACATTTCTCCATAATGAATGAGGTTCTCAATCCATTACACATCCCCCTTCTT/GTJAGATGG TATTGGAGAAGTAGACAGAGAAGAAATTAAGTAGGCAATGCATGTTGCAGGGGTGGGGCTGTGC ATCTGTGTATGTTAGTTACATGGGCACATATACGCTCATGTTTGTCTCAGCCCCACCAGAGAGTTAA CATTTCTGCCACCCCTC
WI-801b	58 G T ---	---	ATGGAACATTTCTCCATAATGAATGAGGTTCTCAATCCATTACACATCCCCCTTCTT/GTJAGATGG TATTGGAGAAGTAGACAGAGAAGAAATTAAGTAGGCAATGCATGTTGCAGGGGTGGGGCTGTGC ATCTGTGTATGTTAGTTACATGGGCACATATACGCTCATGTTTGTCTCAGCCCCACCAGAGAGTTAA CATTTCTGCCACCCCTC
WI-1099b	76 A G ---	---	GAAATTCACCTATACAAGAACTATTTCTCTAATTATTACATTAGTCTCATTATTCTGAAATATTAT TTTTTACA/JGJTACCCCTTGATTATTTTGTGATTCATTTGTACGAGAGATTACAATATCAGTAACGC TGTTCAATTGATAGTGTATCACAAATGTCTAAAATACITTTGGGTCAACATCAAAATTAGAAAGAAA CTTACAAAAGTTTATTGCTTTATGTTTA
WI-2529	71 C T ---	---	AGGAAATGGCTGATACTCCTGGTGGCTTCATTATAGTAAAGGAGATGTAATTGCTTGATGAGCCTCT CAA/C/JTCTTAAGTGTGCTGCCCTCAGTCAGTGAACATTTAATGAAGTCTACACAAATTAATTAGTGT AAGTTGTAATGCTGAATAAGCTTGAATAAAGTGAAGAGGTTAAAGAGGAGACAACTGTGCTTT TTAAGAAATAGAAGAGTCATTTCAATTAGAAATGGCTTTGGGGATGACAAGTA
WI-10088	205 C G ---	---	TAAGGGCTGTCTTCCCCCAGAGGCCCCACGGGACAGAGAAAGCATCTTGATACCCAGGGCCACAAA TGAGCAATCCATAGATACATATAAGAGAGACCTGTACCCCTATGAGGTAACTTGAGGATGAAGGA GTGAGTCATATTGGGTGGCAATTAATGACCCAGCCTCTCTCTCAAGAGAGACTTTTACATTTAGAC AGG/C/GJAGCAGAAGCAGCAAGGAGAGAAAGGAAGT

WI-2625	98 G A ---	---	---	GGG CAG T C C T G G C T G T A G T G G T A G A C A G C A C T G A A G G A T G G A G A G A G A G A A C A G G C A G A A G C A C T G T G G T A G T T A A C A A G G C T T A T T T A G G A [G/A] C A A A T T G A T G A T A C C C T G A G G A C T G C A G A A A T T A C C A G C A G T G G A C A G G G T T A T C T G T G G T G A A T T C A G T T A T C C A C T T G C A G G A G G A A A G C C A G C C A G C A A A G
WI-2924	54 G A TAGG	TGACCTTCCTA GCTTCTCTTA	GCCTAAGTGT AATCACAGGG	TCTGTGTGCATATTTCCCTCTTTGACTCTGACCTTCCTAGTCTTCTCTTATAGG[G/A]ACCCTGTGATT ACACTTAGGGCTACCTGGATTATTTAGAACAATC
WI-2939	72 G T GTGCCITT	GGCTTGCTCA	CTGTGAGGG AAGGTCTTG	CCATTGTTAGGTTGGTGGGTCACTTGTCATTCCTCGCACTCAACAAGTGGCTGTCTCAGTGC CTTT[G/T]CAAGACCTTCCCTCAACAAGAAATGTCTTTCCATGCTCCCGTGTCTTTTGAAAAATTCGACT TTATCCTGAAAAACTCAGCTGCAGTGTTATCTCCGGTATAAGCCACTCCTG
WI-3203	99 G A AGACGAG	GGTTATGCCGC	TCAAGTATTGC CTTGTGTGG	CTTGCTACCATGCAATTCACAGCATACAACCCCTCAGTGAATGCCGTAAACCCCATTTATAAACAT CTTGCCATCGAAGGGTTATGCCGCGACACGAG[G/A]CCACACAAGGCAATACTTGAAGTGACTTGGA GAATAAAGATTTGGATGGATGAAGCAGAGAAAGGAGATGCTAAAAAGTGA
WI-3473	101 A G GCCCTAGGGA	AAGCATTTTA	CCTGATGTCAC CAACATTTCT	GGA AAAAGAAACCTGAAGGATGAGTAGAAGTTAATTTGGAGATAGTTGGTGATAGGCCCTGTTTGGG GATTGCAGAGAAGGAAGCATTTTAGCCCTAGGGA[G/T]AGAAAAATGTTGGTGACATCAGGGCT ACACACTTTTCTGTATGCTCTTCATCAAA[G/T]GCAGGGCTCATTTCTGCACATGGTGATATTTAAG CAGGAGAGCATTTGCTTGGCTCCCC
WI-1796b	29 A G ---	---	---	ACACACTTTTCTGTATGCTCTTCATCAAA[G/T]GCAGGGCTCATTTCTGCACATGGTGATATTTAAG CAGGAGAGCATTTGCTTGGCTCCCC
WI-1796	29 A G ---	---	---	AGTCGTCCATCTTCAGGGTCTAACTCTGGATCTGGCCTGCAGAGTAGGAAAGAAAGATGGGGTGAGT AGTCACATTAGGTATTTTCCAAATAA[C/T]AAAAATGCCCTCTGAAAAATATCTCTCCCATGTCCCTGTCT TAAATATAACATTTTCCC
WI-4360	93 C T AAATAA	GATGTCACATT AGGTATTTCC	GAGAGATATTT TTCAGAGGCAT TTT	GCTGAGCTTTGTGGCAGAGCCAGGGACAATTCAGCTGCCGGATTTTAAATAGATTCTGCAGCACTGCAA CAGGAACCAAAAATCAGTC[C/T]GGGTAACCTGAGAGTGGTTTTCACACCCAAA
WI-1959b	87 C T ---	---	---	GTTGTGCTGTAGCAGACACAGAAGGCA[G/G]AGAGGAAAAAGCCCTTTTGGTCCAGGGGCTTACAC TGAATCCCTCAACAATGCAAGATGAGCTAATGGTCTTAGAGGTATAATCTAAGTGTGAGAAAAACA AAGGTATAGGGTTTG
WI-1973b	28 A G ---	---	---	CTTGAGTATGCGTGGATTTGGTATACACAGAAATGGGAGAGCTGGAACTAATCCCCCATATACCA AGGGACAAATTTGATCTGTTTCTACAATTATACAGTAGGAGACATTTATGTTCCATGACAATGGTAAT TTTTAA[C/T]GACAGTTTTTAAATTTGAGTGAAATACCATAAAAATAATAATAGTAGCAGCTAATATT TACTGAGCTGTTACTAGGTGCCTATAAATAGC
WI-1980b	140 C T ---	---	---	



WI-2015b	190 A G ---	---	TGTCAGATAGTCGGTCTCTACCTAGGTGCAGTAGCATGCTAGGAGCTATTAAAGTACACAAATTATGCT ATATATTTATACAATATACAATTACTTGCAGATAGCATGACCATGCTAGTGAACCCCCACAAGACTAT GTGTGAATCGTCTATTAGGGTTTGTCTATATAAAGTCTACATGCTGCTTTTCCAACTTGA/GCATATACTT CTAATACCATAGAG
WI-754b	49 C T ---	---	GAAGGCACAGGAGAGATGGCTGTCTATCTACAGCCAGGGAGAGAGAGC/CTACATTTATTGGTAA TCCTATAAAGTGCATCTTTAAATTTGTATTACTTTAGA
WI-754	22 T C ---	---	GAAGGCACAGGAGAGATGGCTGTCTATCTACAGCCAGGGAGAGAGAGCCACATTTATTGGTAA TCCTATAAAGTGCATCTTTAAATTTGTATTACTTTAGA
WIR-1b	56 A G ---	---	AGGCAATCAGACCTACAGAGAGGAAACCCCAATAAAAACTCTGATGATCGTACATCC[A/G]TGCCTG GAGGTGATGCCCTCTGAGGACATGGGAGCTTCATGTTGGAGCCCTCCCTG
WIR-1	56 A G ---	---	AGGCAATCAGACCTACAGAGAGGAAACCCCAATAAAAACTCTGATGATCGTACATCC[A/G]TGCCTG GAGGTGATGCCCTCTGAGGACATGGGAGCTTCATGTTGGAGCCCTCCCTG
WIR-3b	72 A G ---	---	TAATTTAAATGGGCCAATAACACAGTACTTATCTCACAGCATTTCTCTAAAGGCTAAATAAGAA GAATGA/GTCTAAAGTTATTAGCTCAGAGCCTCACACATTTCTCAGTGACTGATAAACAATAAGCA AAGCTGGGTGCTGAGATAAGA
WIR-3a	69 A T ---	---	TAATTTAAATGGGCCAATAACACAGTACTTATCTCACAGCATTTCTCTAAAGGCTAAATAAGAA GAATGA/GTCTAAAGTTATTAGCTCAGAGCCTCACACATTTCTCAGTGACTGATAAACAATAAGCA AAGCTGGGTGCTGAGATAAGA
WIR-4	47 T ---	---	GAGCCTTTCTAAAAATAAGGATTGTGACTAGCAACCTCCTGTACAGATTCCTGCTCACACATGTGCA AGGCAGCAGCAAAATTTGCCAGCTGCC
WIR-5g	209 C ---	---	CGGGACAGAGAGACAGAGAGAGAGTTCTGCAGCATTCAACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCAGTGTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCCAG
WIR-5f	196 C ---	---	CGGGACAGAGAGACAGAGAGAGAGTTCTGCAGCATTCAACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCAGTGTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCCAG
WIR-5e	194 C ---	---	CGGGACAGAGAGACAGAGAGAGAGTTCTGCAGCATTCAACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCAGTGTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCCAG

WIR-5d	191 A ---			CGGGACAGAGACAGAGAGAGGTTCTGCAGCATTACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGATGAGAACACCCAGCTGCAGCCACAGCCCTGGTGCCACTGTTAGG TTTTGAAGGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCACAG
WIR-5c	177 C ---			CGGGACAGAGACAGAGAGAGGTTCTGCAGCATTACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGATGAGAACACCCAGCTGCAGCCACAGCCCTGGTGCCACTGTTAGG TTTTGAAGGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCACAG
WIR-5b	159 A ---			CGGGACAGAGACAGAGAGAGGTTCTGCAGCATTACAAGAGGTTATTAGGACTCAGTTCTGCTG CTGTGAGNCATCCACACTGGAGATGAGAACACCCAGCTGCAGCCACAGCCCTGGTGCCACTGTT AGGTTTGAAGGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACAC AGGTTTACGTCACAG
WIR-5a	37 A G ---			TAACCCCTGAAACTTTGCTCTCCTCATCTCAGGGAGAACACAGACTTCATGTTAAGACCCAGAA[A/C] CGCAGCTCTGGGGTTGGGGCAG
WIR-6	63 A C ---			TTGCTGACTATT[C/][A]AGCATCTGTAGAATATTGAATACATAGTCTTGAGATTGATC
WIR-7	12 C T ---			GGCGTCTATGACTATCCTGGTCATTGATTGACTAATGATTCCCTG[C/T]GCCCTTG
WIR-8	46 C T ---			AAACAGAAAAATAGAGGTTATAAGGATGGAACATAAAGTTGTCAGAGAGGATGA[C/G]CTGAAG AAAGAAATTACTCTCTTTTGACCAATAAATACAATTGGGAAACACTGGAAACCATGGCTTGATTACT GACAAC
WIR-2	56 C G ---			TGTCCTTGCTTATGCCTGCCTCTTCGCTGGCAGGATGATGCTGCTATTAGTATTTCACAAGAAGTA GCTTCAGAGGGTAACCTTAACAGAGT[G/A]TCAGATCTATCTTGCAATCCCAACGTTTTACATAAAA TAAGAGATCCTTTAGTGCACCCAGTACTGACATTAGCAGGATCTTTAACACAGCCGCTGTTCAAAAT GTACAGTGGTCCCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACTC
WI-7069	93 G A ---			GGTCATTTCCCTTTTATCTGTCAGGCAGCCAGCTGCTGACTT[A/T]CTCTCTGTTTCTGTCATCTCTCC CCACATACCAACTCTTCCACCATGATGATTATACCAATAATACAGTTCCCTTATATGAGGGGCTCTGGA AAATTAGACAGTGAAG
WI-18694	41 A T ---			
WI-18612	37 A G TGC	CCTATATTCA AGTTTGGAAA	TTGATTGCTG CTTGCAAT	CACACTGTTACACACCTATATTTCAAGTTTGGAAATGC[A/G]ATTTCAGCAGCAATACAAAAGTA TTCAATGAAGAAATGCATAATCTCTGAAAAATTATGAAAAACATCCCT

WI-18517	87	C T	CAGGAATCAG GTGCAACA	TGTTTGACAA GTGCAACA	TTAAAAATCAACTAGGGCTACCCCTCAACACCCCTCCATTGTCAACCTCTACAGCTGCATGCC ACAGGAATCAGCAGCCTGA[C/T]GTGGACCTGTCCAAACACAACCTGACTGC
WI-18568	76	C T	GGCGAAAAAC TAGGCAAAAA GC	GCTAAATTAAA CTGCACCTTTT	CGATTGACAACTTTTATTTTCAACTTAGGTAAACAGTCCAAAATCAGTGTAGATTGGCGAAAACT AGGCAAAAA[C/T]AGCAAAAAAGTGCAGTTTAAATTTAGCAAAAGGCTCAAGACAGTATGTGGAAGGAA GGTGAGATTCCCTCCTACT
WI-18680	75	T C A	GCTGTCACTCT AGCATCTGGA	CCTCCTGAATA TACAACGGAGC	TAAACATACGAGTACTGTACACGCAAGCATGCATCCCTGAGTCTGAGTGAGGCTGTCACTCTAGC ATCTGGAAT[C/G]CTCCGTTGTATATTCAGGAGGGGA
WI-18704	99	A C	GGTTCCTCGA GGGTAC	TGAAGGCCCTG CTGG	CACCCAGGCTGTACCCAGGCTTCTTGTGCGAGCACACACCAAGGCGAGTTGGGCTTGAAGGAGCC CTTGAGGAAACACGGGTTCTCCGAGGGGTAC[A/C]CCAGCAGGGCTTCAAGCTTAAAGTCG
WI-18673	29	A G ---		---	TGTGGGCAAACTTGTTTTAAATTGCAAA[C/A]GJACTTAAATTACAGCACATTCAATAATGAACCAAC AGGAGAGTTGCTGACTTTGTAAACATATGAATATATAAAAAATCCCTTGCAATTCAGGTAGTCAAGGTA AAAAGCGCATACAAGGAAG
WI-18640	121	T C GGG	GTGTTGGGGTG GGG	GCAAATACCAC TGAAGAGGAC A	ACCAGTCATGTTTATTGGAGGTTAAATTCCTATTAGGATATGAAAGGATTAGCAACGATTGAGATT GTGTTCTCACGAGGGGCTCGGGCAAGGTGCTGGGTGGGGGTGCAGAG[T/C]GTGTCCTCTTC AGTGGTATTGGGAC
WI-18533b	91	T C ---		---	GGGAGAGGAGGTAGATTGCCAAATTGAGGCATTTTTTAACTCCCGAGATTTCCTCTTTATT TATATTTTCATTTTCATCCTAA[T/C]TTACTGAAGCCATTTTCTTGGTTAACTTTAGA
WI-18533a	59	T G ---		---	GGGAGAGGAGGTAGATTGCCAAATTGAGGCATTTTTTAACTCCCGAGATTTCCTT[G/C]CTTTA TTTTATATTTTCATTTTCATCCTAAATTACTGAAGCCATTTTCTTTGGTTAACTTTAGA
D11734	83	A C TTC	TCATCTGATAC CTTGTTCAGAT	AACCAGGATA AGGCTACAAC ATTT	GAGCATATGCTGCATGAGGACCTTTCTATCTTACATTATGGCTGGGAATCTTACTCTTTCATCTGATA CCTTGTTCAGATTTC[A/C]AAATAGTTGTAGCCTTATCCTGGTTTTACAGATGTGAAACTTT
D49493	159	A T TCTGGGAATT	CCTGAAGGAA TCTGGGAATT	ACTTTCAGGCC AGGC	CAGGACTTGTGGTGCAGCTGCAGACACAGACAGCAGCTCATGGGCAACATCACTGGGGCCAGAGAG AGCTGTCCGCCAGTGCATCATTAGGGGTCTTTCATTGCTAGTACTAGCCCCCTTAAATGCCAGCCTG AGTACCTGAAGGAATCTGGGAAT[T/A]TGCCCTGGCCTGAAAGTGGCCCATCATTCATCCCACTGTT CT
EST10030 7	98	T C TCTCAAGTCCC	CATTTTGTTC TCTCAAGTCCC	GCAGTGGTGGT ATGGATGA	TATTTCATAGAGGAGACCTAGGAGGAGTTGACACAGCACACTGCTCAGCAGATGACTTAAAAATTT CCCTTAGCCATTTTGTCTCTCAAGTCCC[T/C]TCATCCATACCACCACTGCTGATTG
EST10052 2	24	G A GAGGCTG	GCTCACTTCTG GAGGCTG	TGTGGAACCTC AATCTTAGACT TC	TATTTGGCTCACTTCTGGAGGCTG[G/A]GAAGTCTAAGATTGAGGTTCCACATCTTGTGAGGGCTTC CTGTTGAGTCATAACCTGGTGGGAAGTCATCATGTGGCAAGAGAGAGGGCTACAGAGAGCAAGAGGAA A

EST10605 2	118 C G ---			CTCTCAAGTAG ATAAGAGGCA TAATCT	---	CTCTCAAGTAG ATAAGAGGCA TAATCT	CTTGGTAAATCACAGTTCTGTATTATACAAAAACTTTGTTTCTCTGACAAACTGTACACATAGA AACAAATTTCCAAATGGACAGGAACCTTAAATTTGTGGAGATGCCCATGT[C/G]TTGTGAGACTTAA AAAAAGAAAAAGATCCC
EST11048 0	61 T G TAATCT			CTCTCAAGTAG ATAAGAGGCA TAATCT	AGAAAGAATT TTGTTT	CTCTCAAGTAG ATAAGAGGCA TAATCT	CATGTGTCAATCCCATGATTGAAAAGACATGTTGCTCTCAAGTAGATAAGAGGCATAATCTT[G/J]AA ACAAATCTTTCTGAAAAATTTAGCTTATGAACCTCATTACACTGCAAAACCAGAGAAGGAGCAC
EST11260 8	101 G T ---				---		TATGGAGGCCAGAGGAAGTGACACTATATGTGGAAGTGCTGAAAAGAAATGAAGTGTCACACACAAA TTCTATATCCAGCTAAATATCATTTAAGAAATGAAG[G/T]GGAAATGAAGGCAATATCAGATAAA
EST11349 9			109 C T ---		---		TTTGATGGAGAAATCCGAGGCCCTGCCAGCATCCCCACCAGTAGATTTCTTTGGACGAAGAAAAATCCT TCTGTGGATTACGCTTTACGGCCTTCCCTCATCTGCTGGTGTC/TTTCTCAGAGCTTTAATGTCCGT CCTGCTCTCCGAGTCAG
WI- 16632a	71 A G TGGAGCCCT			CCAACCTACTT T	TCCAGCTTTCT CTAAAAACTCC T		GAATCTGGGTATTAAATAGCGGGTGCCACAGGAGCACATAGGAAGAGCATCCAACCTACTTTGGAG CCCT[A/G]JAGGAGTTTTAGAGAAAGCTGGAGCCCCGAGACCAGTAGTAGGAGGTAGCCAGACCAA AAGGGAGGAAGGAGTGGGAA
EST11772 6	74 A G ---				---		CCAGGAATAAAAGAAAAAGAGTCAGAGGAAACAGTCTTTGATGTTATGAGGCTGAGACACTACTC TTCTTCA[A/G]GACTATTTCTGACTATAAGTGAATAAAATACATTGAAGACTTTCAGGAGCTCA
EST11795 3	82 G A ---				---		CTTGCCATTATTTTGTCATGTTGTTCTTAAAGGCTTGAAAAGATAAATCTTGGAAATGTGGAAAC ACATAGATCCCAGA[G/A]TATTAAAGGGCTGGAAGTAGCCTTAAGAC
WI-16644	42 G A TAC			CAATAAGCAG CTCATTTTGAT TATACC	ACTTCATGAAT TTTACTTCATG TATACC		AGAGCAATGGTGGCATCTCAATAAGCAGCTCATTTTGATTAC[G/A]GGTATACATGAAGTAAAAATTC ATGAAGTAAAAATTCATTATACCAAAAAAGCCTCCACAGAACTTTTCATGCACCCTGAGCTATGTGAAC TGAAAAGTAACAGTGGGAT
EST12005 9	56 A G CAAAGTCTGT			TTGTATAATA ACACTCAGTA	GGCTGGTCACT TCCTGGAT		GCCTAGTAATTCCAAAAGGAACATGTTTGATAATAAACACTCAGTACAAAAGTCTGT[A/G]ATCCAGG AAGTGACCAGCCCGACGTGTGCTATGACCCCTCTGAACCTCCCATTTCCATAGTTTTTGAATC
EST12055 9	32 T C ---				---		GTGGAAAAATTTTTTATCTGTACGCTTTCCCTTCC/TGJATTATATTATCTTGTCCTTGATTCAGCACCC CACCCGATTTGCAGGCAGTGCTTTCTAAACTGTGCCCTGTGAGCTGTAAAAAGTCTTCT
EST12492 1b	95 A G ---				---		CCCCTAGCAATGACTTGGAGTTGTGTCCCAATTACCAAGTTACATACTGTTGCCAAAAATTAAGCTCTC TTCCCCAGAGGCATTAACCTGAGATTAT[A/G]GGAAACGCACAGCAAAAATTGACGATGCAGCTTTTTA CCTTTTTA
EST12492 4	25 A G ---				---		ATCTTGAGGTTTCTGGCCCTGTCAG[A/G]AAGTGACATCTTTTACTTACCAGGTCAGGAACCCCTAT AAAGAAACTGTGTAGAAAAGATATCAGGTCAGACTTTTTTAAAGGGCTTCTTATCAGCTCAATAAA

EST12502 2	52 C G ---			ATACTAGGGAGAAAACCAAACTGGAGGCAAGTCCACAGGTCCACACTTGTCA[C/G]CAGCAAGTAT AAACAAAGTGGTTTCGATGAAGAGAAAATGCTCAGGGGAAATGACCAATTTTAAAGGGCCATGTG GTCGTCGAGGCGATTAGAGG
EST12619 8	105 T C ---			CCAGAGAAAATAGAAATGATCGGTAAAGAAAATAGGAATGCATATTTCAACTCACTGTCACAAA CAGGTGTTTATTATCCAAATGACAGTGTGCCTGAGAT[C/G]GATGCATGTGGCAGACGAG
EST12620 0	67 A G ---			TTTTCTCTCTCTTCATTTATTCATTTGTTCAAAACACTGTCTAGTACCAACATTGTCCACCGGC[A /G]TTGAGAATACAATATTGAAGAAGAGTCACTGCCCTCTGGAAAAATCAGAGTATTGA
EST12817 9a	22 C A ---			TTGGGTTCTCCAGGATCCAG[C/A]CTCGTAGCTGATGTGCATGAGGTCTCATCCATGCTCCACGG GTTCTGGGAGTGACCGGATGGGAATCCATGTTCCTTGGGTACTCCATCAGGTCAATTGCG
EST12941 8	23 T A ---			TCTCAGCTTCCACCTGACCTGCA[T/A]CAACAGCCCGATTATTCACCAGAAATTTGTTTGGGTTTCA ATGTAGTGTTTAGCTTTAATACACTGCACCTGTTTG
EST12949 2a	52 A G A T A C T G T T	GGCTTTAATCA TAACCTAATA	TGTCCTCTGT GGGTCTC	AGGATTTCATGAGGCTTTAATCATAACCTAATAACTGTAAAAACAACAC[A/G]TCTGTCACTTG CAGAGACCCACAGGGACACACATTCTCTCTCATAGACTCTGAGGTAGGAGGTACACTGGCT AAGGAATAA
EST13067 4	104 C T ---			ATTTTTGTTTTCTTAAATGAAGCATAATAACAGTTAAAAATCTCAGAAAAATCATCTATAGTTGA GTGTAAACTCCCCTAAATCAGTCTTCTAGGGCCACA[C/T]GGAGCAGAAAGCAGCTTCCCACCCAAAG CACCTCTGAAC
EST13117 6	66 A G ---			TGCTGTCTGCATCAGTCCTTTTAAAAATTTAATCGCTTTATACAATTGACACCAATAAAATGCAC[A /G]TATTTAAAGTTTACAATTTGAGAAGCTGACACGTGCCATACAGACACACCTCATTTTACTGTGC TTTACTG
EST13121 6	44 C T ---			TCTGCTTTTAAAGATTCTTCATAGCTGCTTAGGTTGTTCTTCC[C/T]AGCATATTCAGCTATAATCA CCTACATCCCTCCACAATATTTCCTGTGTGTGCCAGGCCAGTCTCCTCACTGTCCCATGAATAGCC AGTCTATTCCACTCT
EST13226 6	74 T G ---			AACTGTTTACTAACAAAGGTGCTTTAATTTGAAAAGCATTGAGGAAATAAATAATGAAATAGTCT GGCCATT[T/G]GACTAACCGTTCTACAAATTCACATATCCGTCACTCAGATGAGCATATACCAAG TCAGAGGAAACAAAACATG
EST13230 6	72 G A A G A C G C	GCTCAGATGTG	CCGGCTCTGT ACAGAGA	GCATCATCAGCGGCTTTTACTGAACITTAACAACCAACTTCCCGCTCAATATGCAGCTCAGATGTGAGAG ACGC[G/A]TCTCTGTACAGGAGCGGTACTGTCTTCAATCCTTTGCATGCAGGTGTTTACCACAGGCA AACAGTTTACTCCACAT
EST13236 9a	70 T C T C T C A G G C C T	AACCAGATTT TCTCAGGCT	ACAAGAGGTT TGACAAAAA G	AAAGATATAAAAAACAACCTCCCATCAGTAGCAATACAAGGTTATACATTTTAAACCAGATTTTCTCAGG CC[T/C]TTTTGGATACCTTTAGTAGTTAACTCTCTTTTGTCAAACCCCTCTTGATATAACCA

EST13278 2a	51 A G G	CATTACCGAA CAATATTTTAG	CATATCTTGG GTGGTGAGAA	TTGCAGAACGTTTTACAAGCTCCAAACCTTTTACCCGAAACAATATTTTAGG[A/G]ATTTGAAATTAT TTCTGTAGTTCTCACCACCCCAAGAATATGACAGCTTG
EST13282 0	99 A T	CCACACATTTG AGTCCAAGA	GATGGAAAAAT TGAGGAAGGTT	GCTCACTAGATGAGCATTGACCAAAATATTTAGATAATACCTGTTGGGAAAGTGCTGAATTAAGCC TGCCTGAGAATCCACACATTTTCACTCCAAAG[A/T]AACCTTCTCCTCAAATTTTCCATCTCCCATCAGA GG
EST13290 9	39 A G C T T	CAATTTT TAGA AGTTGGGTTT	AAATCACTTCA TGGAAATTTCA	AGCTCATCTGCAAGCAATTTTAGAAGTTTGGGTTCTT[A/G]CTGAAATTTCCATGAAGTGATTTT TTTTCTGTGCTTAACCTTCACTTAAAGACCTTAAAGACCTTAAAGACAAAGTGGTATCACATCACATATTTTGT ATGTGGGGCTTTTTTG
EST13518 2	45 C G ---		---	GAAACATCCTCCAGTAGATTGAGGTTAAATGATTGAGCATTTA[C/G]ACTTTAAAAATTACCTCA ATGTTCTCGAGTCGTCCATAGTTTAAATGACTTCTGCACCTTCTTATAACCTTGATTG
EST13522 8a	66 A G ---		---	CAGGTTGGTGATTCTCAACTAGGAGCTATTTTGGCCCCCATCCCCACCCGGCAGTGTCTGGAGAC[A/ G]TTTTGATTGTCACAACTCGGAGAGGTGGTGCTACTGGAATCACTGGGTAGAGGCCA
EST13568 6	69 T C ---		---	CTTTAAGGAAGTGAGCCAGATGAATCCAATGACCAACCTGGTTGAGAGCCATTGGTCTAGGAGTAGA AA[T/C]GCACACAAGGAATAAGGGAGAGGAGGTTCGGTTAGTTGAGGGAGAGAAAGTTGGAAGCA TTTCAAGCTAAGTAAATGGT
EST13785 0	101 C G ---		---	AAGATTACGGACCATAAGAACTGCCCCCGACCCCATACACACACAATTTATAGCAGGTAAAAACCA CTGAAAGGAACAAGTAATGACTTTCTTGAACAAA[C/G]TGATTACGAAAGTGAAAGGCTACAGGG TGATTACTA
EST14038 1	25 A G ---		---	CCTCAACCATCTGTAAACCGAGCCCC[A/G]CAGTGACCGGGACTTGCTGCTTCCCCCATCCAGCCCTCT CCTATCAGCATCCGCTAAGCGTCAGTCAGCAGGIG
EST14083 7	23 A G ---		---	CAATGGTGTCCTCATGTGAACATAT[A/G]ACCTATTTCATAAAGTTAAAAATAATCCCTTCTTGAATCA CAGTGCAAAAGGCATGAGGGTGAAAGTCATCTGCTAAATGACCCGAACAGGAGGTAGGAGG
EST14221 5	42 T C	GCATGCTAGA CAGAGGCATT	GGAACAAGTC AAAAATATTTT AAAAGA	AAATCAATGCATTTCTTTGGCATGCTAGACAGAGGCATT[A/T/C]TTTTGAAGATCTTTTAAAAAT ATTTTGACTTGTTCCCCCTTCACACTCATTTTAAATGT
EST14812 2	50 A G A T A	CAAGTCAGCTT CTACATTTCTGA	TAAAGATTTAC TTAAATCCCAT TATGTACT	TTCACTTAGTACCAAGGATGCCCTTTCAAGTCAGCTTCTACATTTCTGAATA[A/G]AGTACATAATGGG ATTTAAGTAATCTTTAGAAAGTCCGGAGTTTGCCTTTTCTAACATTTTCATATCAGGTGAAAAACAAT TTTTTCATATGGTGATT
EST14815 3	128 A T	CATCACCACCC ATACTGGTT	CGGGAAAAACA GTACCGGAA	TTTGCTTCGGCAATACATAGTGGCAATGCAGCGTGAGTTCCGCCGTCTCCCCACTGAACCAAGTAAT TCACCAGACAATGGCGCACCACTTAAATAAACTTGCCCGTCATACCCACCATACTGGTT[A/T]TCC GGTACTGTTTTCCCGTA

EST15420 6	109 C A ---		---	TTTAAACCCCAAGACTTGTAGATGTCAGGACTCCGATCATTTTCTCTGCCTATAGCTTGGATATCTTA ATCTCTCCCTTTGTGCATCATATATAGCCAAAGGACTC/A/GGAATTTTGGCTGCTTCAAGTCA TTCCAAAACCTCTCAGG
EST15700 6	48 G C GGA	GAAAAGACAA AGACAACAGA	GGAATAGCTGA AACAGAGATA TTATTCTC	GTCACGACACTTTTATTAAAGACGTGAAAAGACAAAGACACAGAGGA[G/C]AGCAGAGAAATAATA TCCTGTTCAGCTATCCAGGATGTTATGCCAATTTATCCAGAGTCCTTGATCTGATGTAGTA
WI-16739	57 G A CACAAGC	GGTTTGCCAT	GATAGTTGATG TTCATTATTCC CTATAA	AAGGATTGAAAACATACCTAGATCATATAAATTTGTGAAGGTTTGGCCATCACAAGC[G/A]TTATAG GGAATAATGAACATCAACTATCCTACAGCTAAACCTAATGAAGACCAAAATGGCTCCAAGGT
WI-16782	96 C T CACTGTAAGG TC	GGTGGGAGTCT	CTTCTATCTTT CTGTTCTCTCA	CTTCTCTCTCCTAGACGTGGAAATACACACGGATACAGTATCTGGAGATGTAGCAGCTGGCTCTTGAC CATAATGGTGGGAGTCTCACTGTAAAGG[C/T]GATGGAGGAACAGAAAGATAGAAGAAGTTTGGGGT GCTGATGAATTTGGGG
WI-16783	64 A G G	TCCTGAGATGT CTTTTACCTGA	CTGCTTGGTTC AATCCTTATTA G	AAAAATGTAAACTTAGAGGTGGCTCTTTTGTGTCACTTTTCTGTAGATGTCTTTTACCTGAG[A/G] CTAATAAGGATTGAACCAAGCAGTATTTTTTATGGCAAAGTCCAGATGTAACCTCGAGT
EST15948 2	58 T C ---		---	CAGGACTTAAGGTCAITTTGGCTGGAAGACTTTAACTAAAGGTCAAGGCAACATAGGA[T/C]GTGA CAGCACCACTCGGACCAGGAAGTGTGAAATCGTCACACTAGCGTGCCAGCCCTTTTTCCTGGC TGCTCTGCCTCCAGAGC
EST16088 8	89 G C ---		---	GGTTTGAAGACGCAGCTTATCTCCACCTGCCACTGGGATCTCATTTTGAGAGCTGTTTGTGAGCC TTTTCCAGAAAAGCCGCTC[G/C]GGGTTTCTGAACCCCTCTATGGGCATTTTAGAAT
EST16089 9	96 C T ---		---	CGTCTGAAGTTTCTTTATCACAAGTCACATCAATCCCTCGGGCCCTGCTCAAATGCCACCTCTTC CTGAAAGCCATCCCTAAGTAGTCTCTC[C/T]AAAGAGCCATCCCTGCCCTTTCTTTGCT
EST16100 1	24 C G ---		---	ATCCAGCTGTGAAGGACAGGAG[C/G]GTAACACAGTCCATTATAAGGGGTGTGCACATTCCCA GGGGCTCCAAATAATGCAACATTGTTTCACTCGTCCATGCTGCTGATAGTTTCATAGTAAAAAAGTC ACTCCAGACAGGTTGGCTC
EST16104 9a	83 A G ---		---	TTCTTTTAAATAACCCACAGACACCCATGACACTTCCAAATTTACAGAGCAAAAAGTGATTTGCAG CTGGTTCCTCCAGGGA[G/T]TGGCCCCGAAGCTGGCTCAGTTCACCTCCAGGACCTCAGTC
EST16118 0b	119 T C ---		---	ATGGTATAACAAAATCAGTCCAGGTTTTT[C/G]TGAAACAATGATCCTTTGGCTTTCCCGTGGC CTCCTAAACAACTAAAACAACCCCTCTACGTCTAATCAGTCACCTAAGATATCGAGTGGCAAGT CTTTCACA
EST16118 0a	32 C G ---		---	ATGGTATAACAAAATCAGTCCAGGTTTTT[C/G]TGAAACAATGATCCTTTGGCTTTCCCGTGGC ATGCTCCTAAACAACTAAAACAACCCCTCTACGTCTAATCAGTCACCTAAGATATCGAGTGGCAAGT CTTTCACA

EST16151 2	53 C T ---			AGCCAAATTCAAACGAACTCTATCAAAACACACAAAGGCCTAGAGGAGAGATTA[C/T]AATGAACGT AAATAATTCAAAGGCAATTTTGATCTAAAGCATTTTGCTTAGCTCTACAAAGGCATGAATGAGGTGT GGTCACGTTTTTGATAGGA
EST16182 6	54 G A ---			CATTGGTGGGTAGGGAAGATAGTAGTGCAAAATAAAATGGTAAACAGCAG[G/A]AAATGGAA TTATAGCTTCTTTTCATATAGGGAATTGAAATTTATTTACTAGGGGTAGAGCAGAAGTAGTA
EST16183 2b	59 A G ---			GCAGGTAAACTGTGGTTCAACAACGTATTGTTCTTTCAATAAAGAAAGAAATATCTAGTTG[A/G]GTAG AGGAAGGCACGTCTCTCGGCCCTTCTCGTTTCATATTTTATGTCACTGTCTAACGTGGGCCGTGT GCAAGAGATCTTTGAGA
EST16198 4a	28 G A ---			AATCTTAGGCTCTTGGCTTTCAAAATCA[G/A]TACAGACAGATAAGAGCTTTAAGTATTTTCGCATTT CCCAGAGGAAAGTCAAGCATATAAACACATGGGTACATGCTCACGCACATGGTGTC
EST16229 2c	52 T C ---			TGTGAACCTCGAATTCGCTTGCCAAAGTCTGAGTCACAGTTTCATTTGGGAG[T/C]CCCTGTGCAGCC CTTGCCAGTTTCCACGAGGAGGATACCTCCACTAGCTGATTCAGACAGGCAGAGGCTGCA
EST16229 2b	45 T C ---			TGTGAACCTCGAATTCGCTTGCCAAAGTCTGAGTCACAGTTTCATTTGTTGGAGTCCCTGTGCAGCC CTTGCCAGTTTCCACGAGGAGGATACCTCCACTAGCTGATTCAGACAGGCAGAGGCTGCA
WI-16816	124 A G TGGGTTA	GGAGCCATTGT	GCCTAGATTTT GTTCAGGACAG	CAGACTTTTCTCACACCTCATTTGGCTGGAACTGGGTGACATGCACATCCCTTGAACATCATTTGGCAA AGGGAATGGGTATCAAAATGCTTAAGGCCAAGCAGGAGCCATTTGTTGGGTTA[G/A]ACTGTCC TGAACAAATCTAGGCTC
EST16269 5b	49 G A ---			GCCACTCTCTGTGGCTTGCTCTGTCCAGCTGCTGCCAGTGCCACA[G/A]TGGTCTAGCCTCATGG CAGAAGCATTTAGCCAACTCCTGGTCTGCTCCACTCTCTCCCTCTCCGCCGCTGGGGCTCACCACC TCTTCTCTCTCAATC
WI-16824b	83 G A ---			GTCACCCAGCCCAATGCTTCAGGAATAAATGATGGTGTGCAGCTGTTGTTCTTATGAAGAAGTCAG AAGCTGATAAACGTGG[G/A]CTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGGA GCCTTCCATTATGGGAATA
WI-16824a	47 T C CAGCTGT	TGATGGTGTG	CAGCTTCTGAC TTCTTCATAAG AA	GTCACCCAGCCCAATGCTTCAGGAATAAATGATGGTGTGCAGCTGTTGTTCTTATGAAGAAGTC AGAAGCTGATAAACGTGGCTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGAGC CTTCCATTATGGGAATA
EST16445 3	96 T C ---			TTGCTTTTATTAATCCAGAACGGCATGCTACAGATACTGTACAGCATGAACATTTATTCATTACAAA AATGGCTTCCAAACCATTAATAAATGAAC[T/C]GGATAAGAGCATAAACGGAAACAGTAACATCA
WI-16857	47 G A A	CAAATAAGCA GCTAATGGCA	TGTGAATTGGG AAGACCACT	TATAATCCATCTCTCCAACACACACAAATAAGCAGCTAATGGCAAT[G/A]CTAGTGGTCTTCCCAA TTCACAAGACCTGTGCTTCAAATGTTTTCTTGATTAATGGAGAAATCTGCTCTTTATGTA



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WI-16879	79 C T	GATACAGCC ATATTTCCCA	CAAGGCTTTCT AGAACTAGAGT CC	AGACAGGTCAAAACAACTCCTAGGGATAAAGATATAAATCCAGCACAGCAATTATTTCCAGATACAG GCCATAATTTCCCAIC/ATAGGACTCTAGTTCTAGAAAGCCTTGGGAGAAACAGGACCCAG
WI-16882	99 A G	GAAATGCCA CGTCTCTGAC	GACACATGTCA GGTAAATCGC	ACATGAATGGCAACCTCTTAGGTGGGAGAGACAATTTCCCCCTTTACCCCAAAGGTTACTCTGAC AAGGCTATGAATGAAATGCCACGTCTCTGAC/AGGCGATTACCTGACATGTGTCATCTCCCT
WI-16888	70 G A	GCTAACTTTGG GCAGGTC	AATGTTCTGAA TTGACCAAATT TAA	GTAGTAAATGTTCACTACCCCGGGAGAGCAAAAGAACCATGGAACGGTAGCTAACTTTGGGCAGG TTC[G/A]TTAAATTTGGTCAATTCAGAACATTCCAAAT
WI-16905	75 C T	ACTGGCCTGT GTTGTTCA	GTCTATACTCT TCTAGGCAGTG GG	TTTGTGTTGTTATTTGCCTCCCAACATCAGAACATAAGTTCCATGAAAACAGGAACCTTTGGCCTGTG TTGTTCA[C/T]CCCACTGCCTAGAAAGATATAGACA
WI-16910	74 G A	AAGAGTAAAG ATGGCGCTAG AA	CAAAATGAAG TATCGTTTCTA TAACAGA	AGTTTCAGTATGTGCTTAAGGAGGTTATATCGCTATGACTTTTCATCTCAGAAGAGTAAAGATGGCG CTAGAA[G/A]GTATCTGTTATAGAAACGATACCTTCAATTTGGCCTGAACCAAGTGAAGGT
WI-16918	93 C T	CAGCCATTAA CACCAGCAC	TCCTGATACAG AAGTGGCATC	GGAAAGAAAAATAAACTACCACCATCTCTCTGCTACCACAGAGCACATAAATCTAGGAATTTGAC TTTACTGCAGCCATTAAACACCAGCAC[C/T]GATGCCACTTCTGTATCAGGAACCTTAACGTGACAACC ATGAAAGGTCCTCTGAAAG
WI-16947b	127 A C	GGAAGCAGA CCTGGGG	ATGTGATTGCC CGTGG	TGAGTCAAAACGATCTTGACGGGAAGCTGTTAGAGGTCTCATGGAAATAGGCCTGGAGCACAGGATT TGGCTGAGGCTTTCAACTGACATCAGACAAGACTGCAATCAAGGGAAGCAGACCTGGGG[AC/J]CA CGGGCAATCACATGAGATG
WI-16947a	58 C G	CATGGAAATA GGCCTGGAG	GCCTCAGCCAA ATCCTGT	TGAGTCAAAACGATCTTGACGGGAAGCTGTTAGAGGTCTCATGGAAATAGGCCTGGAG[C/G]ACAGG ATTTGGCTGAGGCTTTCAACTGACATCAGACAAGACTGCAATCAAGGGAAGCAGACCTGGGGACCA CGGGCAATCACATGAGATG
WI-16966	43 T C	AAATGCACAC TACATAACAA CCTAA	TGCAAGTTATC AGTATAAAAA CTCATATT	CATTTGTTTTACTTTAAATGCACACTACATAACAACCTAATA[T/C]CTTAACTTGGTCCAACATATT AGTATAACTAATATGAGTTTTTATCTGATAACTTGCATGCCATTAAA
WI-16995	55 T C	GAGCAGTAGA GACTGAGGTA AATAGTATT	CATGTTGATTT CCAGCGGT	TTGAGTGCCAGACATCAAGCATAGAAGAGCAGTAGAGACTGAGGTAAATAGTATT[T/C]ACGGCTGG AAATCAACATGCCCTCTCTCTGTGTGAAGTTGTAGCATGGAGCTGAGAAGGCTGAGTCAATCT
WI-16992b	60 T G	---	---	AAATACATGGTGTCAACCTCAGCTAAGCACCAGAAAGTACACTGTGCGCCCTCATCTGAGAT[T/G]GTG TAGGACTGTAAAGGAATGTGTTGGGGTTTAGGAA
WI-16992a	46 G A	AAGCACCAG AAGTACACTG TC	CACATTCCCTT ACAGTCCCTACA C	AAATACATGGTGTCAACCTCAGCTAAGCACCAGAAAGTACACTGTG[C/A]CCCTCATCTGAGATGTG TAGGACTGTAAAGGAATGTGTTGGGGTTTAGGAA

WI-17010	23 T C	T T C A C A G G A	A A T A A T A C G G T	A T G T T T C A C A G A A A A G C C A T G T C A T G A C A T T C A A A A C A C C G T A T T A T T A G A A G C T C A T T T A A T
EST17127 9b	74 C T	C A C T C G G C A C A A A G C C A T G	G G G A G G G C A G G C A	T G T T T A A T G C A G A C A A A A A T C A A G G C T A A C T A A A A G C A G A T C C A A T G A C C C A G T G A T C A A C C T A G A G G T T C C C A C G
WI-17040	94 T C A	A A T T C T C T T A T C A T C T C A A G C C	G G A C T A T G G C T T A T T C A G T G A T G	C A C G C G T T C A T T A A A T T T G G T A C A A A G C A T G A A C A C T C A G G A C A G A T T G G C A C A A T A C A T G C A G T T C G A G A A T T C T C T T A T C A T C T C A A G C C A G T C A T C A C T A G A A T A A G C C A T A G T C C C A G T C T C G T T T T C C A A A T C T T T C T C A T A T T G T
WI-17044	47 G T G	G C C A A G G G A T T A A C G T A T A G	G G G G A T C C C T T G T T T A A G A	T T G T T T G T T T T T T C T C C T C C G C C A A G G G A T T A A C G T A T A G G T G T T C T T A A A C A A G G G G A T C C C C C A C T T A T A G C T G A C A G C A G C A G C T G C A A C C A C T G A C T C T C C T G C A G A A T G G C A G G G A A T C G A A T C A A A A G A A A A G C A A G T G
WI-17021	62 T A A C T C	T G G A C T T G T C A G C C T A T A A C T	T G T A G A G T T A G T G G C A G C T G C	G C A T G T T G G A G C A G A T C C C A T G G T A G C C A A A A A G T G G A C T T G T C A G C C T A T A A C T A C T C T T A G C A G C T G C C A C T A A C T C T A C A G G C A C A G T A A C T A C A C T T T A T A C A G G A C A C A T G C C A A A G T G C C T G G G A G G T G C C A A T A A A A T C A A
WI-17065	90 T C T T	C C A G A A A G G A A A A G C A T A A A	C C C A A G A G A C A A T G A A A T C C T	T G T A A A A A A T G T A G A C A T G G G G G A A A A A C A T T C G T A A T C A A C A T G T G C T G T T T T C T A C T T C C G G T A C C A G A A A G G A A A G C A T A A A C T T T C A G G A T T C A T T G T C T T G G G T
WI-17066	32 A C T	T G T A C A G C C A A C A T C A C T G T T	G A G A T G T T G A A A A T G T T C T G G A	T T C A T A A G G T T G T A C A G C C A A C A T C A C T G T T T T A C A T T C C A A G A C A T T T T C A A C A T C T C A A A A A G A A A C T C T G C A C C C A T T A G C A G T C A T T C C C T G T A G C T T C C C T C A T A G G C A A T G G C A A C T G C T G A T C
WI-17074	86 T G ---		---	T G C T G A C T G T C A T G A C T T A G T A A G G C C A T C A C A G G T T G C C A G A A C A T C T A C T A A C T G T T C C A A G C A T A A C C T C C T A C A C A G G C C T T G C T A C A T A G G A G T A T A T T G G C C A A G A C T A C C A C T A G A A G T G A T T
WI-17104b	108 T C ---		---	C A G A T G A A A C T C A T G C T G G C T C A T C T G C A A G C T T C C T G A T G C T T T G G A G C T T C C C A T T C A T T C C A A A T C A G A A G C A G T C A G T G G C C C G T G G T T C C A G A C G G C T T C T C T C T T T G T T A A G A A A T T A
WI-17114a	37 T C G A C T T T G T T T	T T T C C A T C A A G G A C T T T G T T T	T T G T A T T A T A A A T A G C A G A G T G A A G A G A C	A G C G T C C A A C A G A T G T T C C A T C A A G G A C T T T G T T T T T C T C T C T C T C A C T G T A T T T A T A A T A C A A G C T A C C T C C C A A G G C C A G A T G C T C T A A G T G C T A A A A G A A G A C T G C A G C C A A C A T C A G A G T T A C A T G G G A
WI-17150	76 T G C T C T T	G A T G A A A T T C A G A T A G T C T T C	T T C T C A G A A T C C T G G A A G A T A T G	C G T G G C T G G A C T A A G T G C T C T T C C A T G T G G A C A C A T C T C C A C T G A A C A G G A T G A A A T T C A G A T A G C T T C C T C T T T G C A T A T C T C C A G G A T T C T G A A G G G C C T C C T T T G T C T C T A A T T T
WI-17163	43 A G T A A C G T T	C A T T T C T T T G T A A A A T A A C A A	C A G A A T C T T G C T T T T G C C T T	G A A A T C G A A T A C G T C C A T T T C T T T G T A A A A T A A C A A T A A C G T T A G A A G G C A A A A G C A A G A A T T C G T A A C C A A C A T T G G A A A G G G G A C A C A G G G A G G G C A G A G G G A A A G G C C A G A T T T T C A A C G G T T C C T C C A C A T C T G C A G A C A A A

WI-17178	127	T C	GGACTCCCTCA	CCCTCAATTTT	AGCAATGTCCCTCCAAATTTTCATTAGCTATGATGGAGTTATCAGTTTCATTTTCAGAGCGAAATTAAGTGG
			GGAGGAGC	CAACTGCTTC	GGCGAGGGGGTTTAAATATCCTGATGGGTTTAAATTCAGTGAGGACTCCCTCATGAGGAGCTTC/JAGAA
WI-17180b	81	C G	---	---	GCAGTTGAAATGAGGG
			CACAAAATA		TCATGGACATCCTGAAGCAGACACACAAAATATAGAGAAATCCTGCACITCCCAAGTCTCGTCGCACAG
WI-17180a	47	T C	TGCA	TGGG	GGAGTC
			TGTTCTCTAAA	CAAGAAATAT	TCATGGACATCCTGAAGCAGACACACAAAATATAGAGAAATCCTGCACITTC/JCCCCAAGTCTCGTCGCA
WI-17156	54	G C	TCCCA	ATATTGATTC	GGAGTC
			CTTTAGATATC	TGTGGAA	CAGGCTTCAACAAATACCAACATCTTGCCCATTTTGTTTCATTATCCGCAACCCACACTGACAGATGAG
WI-17149b	79	T C	---	---	TAATATCTTG
			CAAGTTTGA	CCACGCAGTG	TGAGGTAGCAGGGCATTCTTAAGAAATGTTCTCTAACTTTAGATATCTCCCATTC/JTTCCACAGA
WI-17149a	48	C G	AGGAGGAACA	CATGA	ACCCAATTGTCA/TTC/JGTGTATGAACACAAAGGATGGGAAAGAAACAACATTTCTCACA
			GCAGAAGTAG	GGTGAGGTGGT	CAGGCAGTTAATGTGCTGACATAGTAACAAGTTTGAAGGAGGAAACATTC/JTTCATGACACGTGGTG
WI-17197	67	G A	CTGGGGCTAC	GCATACC	GAAACCCAAATTTGTATGTATGAACACTACAAAGGATGGGAAAGAAACAACATTTCTCACA
			TCCCTTGTC	TCCATTGTCC	ATTTGCTATGTTGCCGTGGCTGAGCTCCAGCAATCCTCCTGCCTCAGCAGAAGTAGCTGGGCTAC/G
WI-17198	38	A C	CCTAGTTT	ACTGAGAAAT	/AJGGTATGCACCACTCACCTGCTTATCAGTTTCGTTTAAATAGAATATTTGACTTTTAGATCGGCA
EST18753			CTACCCAGGCT	GGATCGCATGA	TGATTTTCAGTACTTTCTCCCTTGTCCCTAGTTT/JCJTAATTTCTCAGTGGGACAAATGGACAA
8	27	C T	GGTTCAT	GCCTGA	ACCATCTCTGTTGAATTTGAATACACAGATACATGCAAGATATCTTACAAGAAACAATGCACATCC
			GCCATTGAGTC	AACTACGATTT	TTC
WI-17108b	74	C T	CA	CC	TCGCTATGCTACCCAGGCTGGTCTCATTC/JTTCAGGCTCATGCGATCCTCCTGCCTCTGCAGTGGCTGG
EST19067			---	---	GATAAGACACAACCTGCCACCCAGGCTGCCCTAGGAGTAGTCTTAATGCCGTGATGGTGGG
2b	41	A G	---	---	TTATTTTAAACATAACCAGATGCACCTTGGTTTTTACATTCTCTGGTTGCCATTTCAGTCTCAAAAGT
			CGTGACCATTT	AAAAGTTGAA	AAACAC/CJTTGGGAGCATATGATAAATCGTAGTTTAAAGGAAGCCATAGCACCTTACAGAGT
EST19067			AAGGGTATAG	TGTACTTAATG	ACACAAAATTTTACCATCGTGACCATTTAAGGGTATAGTTCA/JGJGTGGCATTAAAGTACATTCAACT
2a	40	A C	TTC	CCA	TTTTGAGCAACCCGCCCATCACCATTCAATCATCCATCTCCGT
EST19125			---	---	CTGTTTCTCAGAGATGACACTGCCAACA/JGJTCACAGATTTGCATACAATACAGTTATGTATTGGC
8	28	A G	---	---	TATTCACAAATTTACAGTAGTGTTTTTTCTCTGAAAAA

EST20824 8	115 T G	AGTCGGGAGT GCTGATTG	AAGATTTTATC TTGGACCCGA	GTGTGGAAGCCGGAGTTTATTATTATTCAATCAGTCTCTCTGAAACATCAGGGATTGAGGTTTTTA AGGATAACTTGGTGGTAGAGGGGCCAGTAAGTCGGGAGTGTGATTGTTGTTGCGGGTCCAAGATAAA ATCTTAGG
WI-17347	50 A G	ATCCTCAGAA CTTCTCAGCCT	TCAAGCATCCA CTTGTGCTA	TTGGTTAAATGATGCCAGATGGGTGCACATCCTCAGAACTTCTCAGCCTTJAGGTAGCACAAAGTGG ATGCTTGAAGAAACTCAGTCTTGGAACTCAGACAGCAATGGAGACGGGATGTGAGTGGGACCA
EST21904 b	128 G A GTG	TTCATATGGCC ATTTTAATAA	GGCAGGTGTTT AGAAAGCAT	TGATTGTGGGTCTGGAGCAGGTGGGAGTTCAGTGAGGAGCAGAGGAAAGTAGACGCAGTAGAAAT GAGACTGGAATCAATAGAACAGAAAAATGTACTAGGCTTTTCATATGGCCATTTTAAATAGTG[G/A]TA TGCTTTCTGAACACCTGGC
EST22111 3	82 T C T	GAAGATCTGT CTGGCATTCTT	TGGAATAACA GCCCCAC	CAACAATGTAGACATAAGGGAAACAAATTCAGAGAGCTCAAGTCACCATGTTTGTCTAAGAGAAGAT CTGCTGGCATCTTTTJ/CJGGGGCTGTTTTTCCAAGGCACA
EST22197 2	78 T C	AATTATTCTGC TATCTCTGCCA	ACCATGAAGG ATGCGGT	GTTTAATGATCACTCACCAAAATCCACAGGAGAACTCTTAAATGTTTACAAGCACCAATTATTCGCT ATTCCTGCCATJ/CJACCGCATCCTTCATGGTAGAGTATCACAAGTAAAGTTTTCTGGTTGTTTCATC TACTTAAAAACCA
EST22311 9c	92 T C ---	---	---	TTTTCCATGGATTAGATCATCTTTTTATTGAGTTATAATATACATAAAATCCACCACCTGTAAACAG TAGCAATCAATGGTTTTTACTCTATJ/CJGTCAAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22311 9b	54 A G ---	---	---	TTTTTCCATGGATTAGATCATCTTTTTATTGAGTTATAATATACATAAAATCCJAGJCCACTGTAAA CAGTAGCATTCAATGGTTTTTACTCTATTTGTCAAAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22311 9a	41 T C	GGATTAGATC ATCTTTTATT	TTGAATGCTAC TGTTTACAGTG G	TTTTTCCATGGATTAGATCATCTTTTTATTGAGTTATAATAJ/CJACATAAAATCCACCACCTGTAAA CAGTAGCATTCAATGGTTTTTACTCTATTTGTCAAAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22319	19 A C ---	---	---	TCGAGGAGCTCTGAGGAGCJ/CJACCAAGGGACGTGTGTCCAGGGGCCACCGTGCAGGCAAGTGTG GTCCAACTCCTTCCCTTTACAAAACCTCCAGCCTCACCCACACAAACACTGGCTGACAGGCCCTTCT TAAGCCTTTTTTAACGT
EST22433 c	103 A G A A	AAGACATGTT CACCAAGTGA	CAGCTTCAGCT TAACTGACAGA AGTTTCAGTTT	GATGTTAATGACTTTCCCTTTGAGATATGATGGAAAAATATCCAGGTACACATGGAAAAAGACATGTT CACCAAGTGAACCAATCTAACAGAAAGCTTTACCJAGJCTGTGAGTTAAGCTGAAGCTGAAATTT CTGGGAGCTTGACATGCTG
EST22657 9	71 A G	AAATGGATCC TTATCTGCACA T	GCATGAATTTT	TATCCATTTCAAGAAAAAAAATGACTTAAAAAATACAATCTATCCAGAAATGGATCCTTATCTG CACA[A/G]CCATTGAAGAAAAAAAATTCATGCAAACTGAAACTATGCTTT

EST22993 5b	71 T	ATCCTTTTGT C TCTACCCC	TTGCCTGTAA TTTGAAGTAA TG	GCCTTTTATTGCTCCTCTTTTAAACATCAAAATGTTTTATAACACACTTGATCCTTTTGTCTACCCCCA ATT/C]CATTACAGTCAAAATTAACAGGCAATATAATAGTCTAACAGAAATGCTTGCAATTT
EST23021 0	108 T	A ---	---	TTATTTCTCAGCTTACCATTGTTGTACTTATATCTCTGTACAAGGTGTTTTTCTCCATGGAGAAATG TTAAATCTTTGTGAGGTTAAATTTTATTAACTCTTGCCCTT/T]ATGGTTTTGACAGTTTGTGTCTTTCT T
WI-17387	55 C	G TGAAGAAAA AACTACT	GCITTTGCCTA AGATTAATAGT AACTACT	ACAGAA TTTTAAACATGCAAGTTTTCATTACATTACCTTTGCAGATTGAAGAAAAA[C/G]AATATTAG TAGTTACTATTAACTTAGGCAAAAGCCATTTCTTTG
EST23669 1	101 A	C CCAGAGGCAG TGTAAGC	CCITCCCCTCC TGTAAGC	TTTTTGGCTTGTCTGCAGATAGATGAAAAGAGAAAAATATACCAGATACTTTGTCTCACTCTCCCCA AGTGCACACTAGGCAATGTAAGCTCCAGAGGCAG[A/C]GCTTACAGGAGGGGAAGGACGCTGAGGC CAAGAGTGTCTGGCTCACTG
EST23733 9	31 T	G TT	TGCCATCAAT	AAAGGCTGTAGTTTTGTTTTTCTCTT/G]TATTGATGGGATTTAAAGTGCATATAACTGAAG GCAAAGTCCAAAGGCCCTAGAGAAAGATATAGGCCCGAGAGAGAGGCTCAGAGATTCTAGAGGCGGC TGAAGAATACCCACCTAAA
WI-17470	83 A	G CCAG	GOOGA	CTGACACGTCCTGTGTGCGGGGTGTCCTATGTGGGTGTGTGTGAGTGAGACTTTTTTACTGCGTCCC GTCCCGCCAGCCCC]A/G]TCCGGCCTCGTCACTGGCCTTGGTCACTTTTGTATTCTGCTTGGTTGGAAA TACCATCAGCCTTCC
WI-17519	55 T	C A	CTC	TTTTTAACGAAATCTCACTACTGCAAAATGCATTTGTGCTCCTAGCTAATGAATGCA/T]C]AGAGATTG CCTGCAAAATAATAATTGAGATCTATTTTTAAGAAGCTTAGAACAGTACATGGTGATAG
EST25356 3b	95 C	---	---	TCITTGATACAGGTAACCAAGTTTGTAAACATTAATCAGAACTTCACTGTATCTTCAAGTTTTTGATAT CAGCATCTCTGTGGAGAAAGCAGTGTC/G]TATAATGTCAACATCAGGATTTCTTTTT
EST25356 3a	26 A	C ---	---	TCITTGATACAGGTAACCAAGTTTGT]A/C]ACATTAATCAGAACTTCACTGTATCTTCAAGTTTTTGA TATCAGCATCTCTGTGGAGAAAGCAGTGTCGTATAATGTCAACATCAGGATTTCTTTTT
WI-17581c	99 C	T ---	---	GGGTGACGCTCCAGAAATGGGAGACAAGCCAAATTTGGGAGCAGATTGGATCCAGCTTCATTCACACATT ACTACCAGTTATTGATAATGATAGAACCCAA[C/]T]TAGGCGCAATTTACATTGACGCGTCATGC
WI-17581b	86 T	C ATTTGATAA ATTGOGCT	CGTCAATGTAA ATTGOGCT	GGGTGACGCTCCAGAAATGGGAGACAAGCCAAATTTGGGAGCAGATTGGATCCAGCTTCATTCACACATT ACTACCAGTTATTGATAA/T]C]GATAGAACCACCACTAGGCGCAATTTACATTGACGCGTCATGC
WI-17596	86 A	G C	CAATAT	GTGTGCTGGTAAATGGATAATAGCAGTCTCTCATCTCTGAAGGTGGGAAGTAGGAGAAAGGCCTACT TCCITGTGTAAACACTCCC[G]A/G]ATATTGTGCGATTCTAGCTATAGAATGGGCCACTAAGTGGGTCTC

WI-17623	46 T C ---	---	TG TGG TTTTAA TTTTAA TTTCCCATATAA TTAATG TGGTGGGCACATTT/CJGCA TGTGCTTACTGGGTC ATTCATATA TCTTTTGTGAAGCATCTGCTCCAATCTTTTGCCTGACTTTGGAGTTTITGGT
EST26419 1b	46 T C ---	---	ATTTACATACAGAGATACAAAGGCAACTATGTGCAGCAACAATCTGA/T/CJGGCAGTCCAAACTTCT TGGGAGGAAGTAAATTCATGTTAAATGTCATGATGGCTGGTTCGAGGAGAAGGTTCAAAGGAGGTAG AGAGAGGAGACAGAGAATG
EST26419 1a	35 C A AG	CAAGAAGTTTG GACTGCC	ATTTACATACAGAGATACAAAGGCAACTATGTGCAG/C/AACAATCTGATGGCAGTCCAAACTTCT TGGGAGGAAGTAAATTCATGTTAAATGTCATGATGGCTGGTTCGAGGAGAAGGTTCAAAGGAGGTAG AGAGAGGAGACAGAGAATG
EST26780 5	69 G C ---	---	TCAGCTTTAATTTAAGGGACATGTAATAAATAAAGATGCATTTGACAGGACAGCAGACTAGTTCAAGC AG/CJAGGTTAGACCAGTAACAACAACCAAGAAAGCAAAAGTCTCGTTCCATCTTGGCTTTACCA CACTTACA AACTGATACCC
EST26900 7	39 A G ---	---	TACTTCAGTTTAAGGCAATTCACACAGAGACTGTCTC/A/GJGAGACGGGCACAGAACCCAGACACC GTAGAAACACCACCACCATGCATGACGGGAAGCAGAG
EST27152 1	101 C T ---	---	CAAAGGATTTTATTTTGTCCCTAAAGTAAATCTAGAAAATAGCAACCCACTGCAAGAAGAGTT CTATACTAAACATTTTCAATCATCTCTCTC/TJTTTCAATGGGTACTCTTTTCATGTACACAT CATCGGAAAACAGACTGA
EST27504 0a	33 G A ATTT	GCTGGTGTGAT GCTACTGTAAT G	TTTTTGCACTTTGCAACAATTTAATAATTTATC/G/AJCAITACAGTAGCATCACACCAGCAGTCAAT AATGCCACTTTAGGCAAAAGTCTTTCAGTATTTCTGTITACACATCTGTTAACAAGAACCCCATACATT GGTAAATTCATTCT
EST27662 4	51 C T C TCCAGTCTTG C	TTATGGAATG GCTTATGTAAC C	ATCTTAAAGGACCATTAGAAAAGGCCAGTCACATTTCTTCTCCAGTCTTG/CJAGGTTACATAAG CCATTTCCATAAATCTATAGCCTCTTCTTAGAGTAACACACACTCTTGTTTAGGAATGTTT
EST27788 3	100 A G ---	---	ATTTTATTAGGCGGTACAATTCCTCAAGGTGGTAAGGGTGAAGGAAAGGCGAAGGCGCAAAATACAT TATTGAGCTGAAAACAACCTTACATTCAAGGAC/A/GJGCTTCCAGACAAGCCATGTAGAACCAGCAT GCCTTGGGACTGTGTGGAT
EST27828 4	58 G A AGAAGTCATC	GTGCAGAGAGG TACTCCAAGTA C	TCTTCTAAAAC TTTCTCTGTTGGATCCCAAGTACAGTGAAGTCAATCAGAACCCAC/G/AJGTACTT GGAGTACCTCTCTGCAACCAAGATAGCTGGCTGATTTTCTGCTCAGTCACAATTTTACTTGAA
WI-18369	58 G A ACAATC	TCAAGAAGGCC TTATCCATT	TAAAAATTTGAGATACATTTCCCAATGTAAACAATAAATTTCAATCTGTACACAATC/G/AJAAATG GATAAGGCTCTTGACAAAATTTCTGCCACCTCCGTTTAAAGCATCAGAACTCAATCTTATCTC
EST28036 4	37 T C ---	---	TCCCGCTTCCAAAAGCTTTATTGGCAATATGCTCTA/T/CJAAAAGAATGATCAATCCTGTTGCCCTCT AAGTCAATGGAATGAAGAGCTGTGTCCAGGGACACACCACCGCGTGTGAAGGAGACTGCTGTGTG TCCACCTCTTATTCATAG

EST28483 7	31 T A	GGAGTAAAG GTGTTCTTCT TTAAA	TTTCTCGCATT TATTTTATAC CA	CATTTGGAGTAAAGGTGTTCTTCTTTAAAT/AJATGGTATAAAATAAATGCGAGAAACATTAAC GGAGAAATGTACAGACACAGACGAAAGACATGAGTTGTTCTGACTGTGACACATTTGGTGAAA
WI-17724	50 T C	TGGGCGCTCC TGTC	TGGGTTGGCAG TGTC	AGAAATTGGTCTAGTAATCGTTACGAAATTCGGTGATGGGCCCTCCCTGTCT/CJGGACACTGCCAACCC CACAGCTGGAGGGGCACTTAAGGCACGTCATTTTGTGATTAGA
WI-17730b	68 T C	---	---	TGAGCCTGGGGAGAAAGACCACAGAAAGTGAGTGCTATTAGTTACATCATACCAAGTGTACATACTG TT/CJACATGATTTATGGCTGTTGATGTTGACCTCAATAACCTGGCTGATGTAGTATGTGTCA
WI-17730a	39 A C	GACCACAGAA GTGAAGTGCT ATT	TCAACAGCCAT AAATCATGTG	TGAGCCTGGGGAGAAAGACCACAGAAAGTGAGTGCTATT/A/CJGTTACATCATACCAAGTGTACATA CTGTTACATGATTTATGGCTGTTGATGTTGACCTCAATAACCTGGCTGATGTAGTATGTGTCA
EST29041 5b	53 G A	GGAACAAACA CATTAAAGCAT CA	GGTATTGTTGA TTTGAGGAGTT AGC	TACTCAGAAATGTGAGTTCATGAGGAACAAACACATTAAAGCATCATTTGTCACT[G/A]GCTAACTCCT CAAATCAACAAATACCCCTTTATTTTAGCCATGAAAA
EST29128 4	58 A G	---	---	CTTTTAGAAGGACACCAGTCTTTGAGCTTAGGGCTACCCCTATTCACGACGGTGCC[G/A]JTATTT TCACCTGGTTACGTCTGTAAAGGACCGTTCCAAATGAGGTTACAGTCACAGGTTCTGAGCAGACATGA GTTTTGCTGGGGACACT
EST29912 3	103 C T	TCTGCCAGCTT ACAGGCT	GCGTAAAGTGTG TCATTCTTCTG T	ATTTATTAGGTATCTGCTGTTGGGGTGGGGAGATTGTTGAGATACTGCAACAGACACAAAA AGCAAGAAAGAAACATTTCTGCCAGCTTACAGGCT[C/T]ACAGAAAGAATGAGACACTTACGCGATG GCCATGATACACAGCAGTGA
EST29936 8	121 G C	---	---	TATTTGGTATGCTTAGGGAAGATTCTGATTTAGAGATATTAAATCTTTAAAGTTAACTCACCATGAAA TTTAACTTCTGTACTGGCTTCACTGATGAGGCAGTAACTACATAGGGATAAA[G/C]JAGCTCAGTA TCTGGAATCATGCTTCTCG
EST30223 2	99 A G	---	---	AAATAATACATCATGGGAATGGGATATCCATCCCTCAAGCATTTATTTCTTTGAGTTACAAGCAA TCCAAATTACACTCTAAGTTATTTTAAATATTC[C/A]GJGGAATTTAATTTCTTCTAGTTCAATCTTGGGA GG
WI-16260b	86 G A	---	---	CTTTTCCATTGGTATTAAACCTGTAGAGGTTCTTTGTGAGGTGGATTCAAGAAGAAAGAACCCAGA GTTTCACAATATAGGTAGC[G/A]ATAACCAGGCTCACCTTCCCTTCCCTGAGAACCTTCGTGGGAC
WI-16260a	59 G T	TGAGGTGGATT CAAGAAGAAA A	CTACCTATATT GTGAAACTCTG GGT	CTTTTCCATTGGTATTAAACCTGTAGAGGTTCTTTGTGAGGTGGATTCAAGAAGAAAGAACCCAGA AGAGTTTCACAATATAGGTAGCGATAACCAGGTCTCACTTTCCCTTCCCTGAGAACCTTCGTGGGAC
WI-17835	30 G A	ACAGGAAATA TTGTGCTTTCT TG	TGGGGTATAGG AAACAGGC	AAGAGAAACAGGAAATATTGTGCTTTCTT[G/A]GCCTGTTTCTATACCCCAATATCATAAGAAAT GTTGTGCTTCTATAATGTTGAGCTTCAAAATCTTTTGCTTAATCAATCCAAATGAATACCTGAAT TTCTCCTCTTGTCAAAA



EST31951 4	87 C T	GGGTGTCCAG CCAACA	CCCACCAAAAT CACCTCC	ACAGCCATTTATTATGTTTACTTGGTAATATCAGAGACTGAACATTTTCACTCTTTAGCAATGACA TCGGGTGTCCAGCCAACA[C/T]GGAGGTGATTTTGGTGGGAATTCATTACACAATTTATCT
EST31968 8b	95 T G ---		---	CGAATTTGTCTCTCTTATTTTGTGATCTAGTAATCCTAAAAGATTTGGGGGGCGGGTTACTATAAGT GCATTTTATAATGGGGATTTTCTGCTT[G/A]ACTGCCCACTGATTCTTACATGGGAAAGGTGCAAAAG ACAGTGGTACTGCTCCC
EST31968 8a	75 T C T	GCGGGTTACTA TAAGTGCAATTT	TGTAAGAATCA GTGGGCAGTT	CGAATTTGTCTCTCTTATTTTGTGATCTAGTAATCCTAAAAGATTTGGGGGGCGGGTTACTATAAGT GCATTTT[G/A]ATAATGGGATTTTCTGCTTAACGTGCCCACTGATTCTTACATGGGAAAGGTGCAAAAG ACAGTGGTACTGCTCCC
EST32063 2	103 C T ---		---	TCCATGGATGAACAGACGCTACCATGCCACATCCCCACTCCCTCCGACCAGATGTCGTGGCCAGAGC TGGCTTCCCCCTTCCAGACCTAGCTGGCTTTGTAGT[C/T]GTTTCAGGGCCCAITGAAATAGCAAAACGCAC AGTCATGTAGCACTCGG
WI-16303	65 A G ---		---	AAGGCTTTCCAAAGCATTCAAAGGCACITGGGTGTGCTCTAAAGTTTCTGGTCACTGCGAGCCCC[A/G] TTCTGTATTAGGGAGCACCCCAAGCCCCAGTAACATATGGTCTTGCGAG
WI-17800	29 C G	GGGAGCACAA GAGAACTCA	TTTCTTACAAT TAATCCCCAGTC TT	TGGACATGGGAGCACAAAGAGAAACTCACT[C/G]AAGACTGGGATTAATTGTAGGAAATATTTACACAG TTTCCACAAGTCAGAAGAGCTAATCCCAACCCTCTGTATCTGGAACATACACTGCTGCCATTTTCTGCG CCATGAAGGGAAATACCC
WI-17857	34 T G C	CCTAAAGTCTG GGATGACTTTC	TTGGCTTAGGT TCTACTTGATG T	AAACTGTCATTCCTAAAGTCTGGGATGACTTTCC[T/G]ATTCTACATCAAGTAGAACCTAAGCCAAT TCAGAAATCAGAAATCCCTTTTGTCCATCAAAATCCAGCTAAGCTCAAGCTGAATTAATGTTCAATCT
WI-17860	121 T A	TTTGCCAGCAA AGCAAATA	ACTAAGGAGC AGTCAGTCGG	GTAATCTGATGTAGTTAACCATGGCCTGTCATGATTATATTGCTATAAGGAAGGGAACAAAATCTTTA TAGTGTCCAAAGATAAATTAATCTTGGTTTAAATCTTTGCCAGCAAGCAAAATA[T/A]CCGACTGAC TGCTCCTTAGTCTGTGATC
WI-17866	43 A T	TTTATAGCCT ACTTCTCAA	CCGTTGTCACT AATCACACAA A	CAGCAACCTTTTTTTTGTATAGCCTACTTCTCAAAAATTTGT[T/A]TTTGTGATTAGTGACAACG GGGGAATCTACAATGCTCACATCACAGTAAACTACCA
EST33301 4c	80 G A ---		---	GAAAAAAAAGTCAAAATGTGTTCCCTTTATGGGTGATGCCACCATGATTGCCCTCACACAAGCATGATC AATGCCACGAGA[G/A]ACTGGATGCCAAAAGAGTATGG
EST33301 4b	63 G A ---		---	GAAAAAAAAGTCAAAATGTGTTCCCTTTATGGGTGATGCCACCATGATTGCCCTCACACAAGCAT[G/A] ATCAATCGCCACGAGAGACTGGATGCCAAAAGAGTATGG
EST33460 1	44 G A CA	AGCGTGGTTTT CAATACTAAA	CTGTATTATT GTTAAATATTT GCATTGTT	CTATCCAAAGATATTTATTGCAGCGTGGTTTTCAATACTAAACA[G/A]TGTAAACAATGCAAAATATT TAACAATAAATACAGTGATTAAATAAGCCATGGCATATCCAGTTGATGTAATACITTTGCAA



WI-17904	50	A G	AAAGCATGAC AATAAAATGA ACAC	CGCTTATGTTA ATAGTAATTCC GG	CAAGTGAATATTGATACATGGCTGACAAAGCATGACAATAAAATGAACAC[A/G]TACGGGAATTAC TATTAACATAAGCGATAACATCAAAACATCTGGTAAATGCGAGTTAAAACAAACAAACAAATGA
EST34149 5	69	A G	TGCCAAATAC TCAAGTGTGA GAT	AACTACTAGCG AGAACAACTA ATAAAATC	GTTTTCTTTGAGTGACACAAGCTTGTTCAATTTTGAGAAAATGTGTGCCAAATACTCAAGTGTGAA T[A/G]GATTTTATTAGTTGTTCTCGCTAGTAGTTTGGTATTCTATGAAAAAAGCAGCTAGTTTCAGC TTACAAATCACACAAGT
EST34343 8	95	C A	---	---	TGGGAAAACATAAGTTAACTCAAGAAATATATCCAGTCTTTATGTTACTAAAACATTTGTAATAGTGT TTTTATCAATGATGCCGAGGTCACTGCT[C/A]TACAAAGATTAAAGAACTTACCATCAAAACACTTC CAGTGCATCAA
WI-17982	98	C T	GGACCATATG ATATATAACT CCTAAAGC	CAGAAATTATG TGATAATAACT CCTCC	GGTACACAAATTTTAATGGAAAGAACACAGGTATGTTGAAAGAACATCAGTACAGCTGGAGACAGG GAGGGACCATATGATATATAACTCTCTAAAGC[C/T]GGAAGGAGTTATTATCACATAAATTTCTGGGC GCTACAGAAGTTTTTCATCA
WI-17993	118	A C	---	---	CTCAGTAACTCCGGTGTATAATCTGCCATTTATTGATTTATTATGATAAAACAACTCTCATTTGTGA AAAACAGCTAAGGGTGACATCTCCAGACCCCAACCAGTGTCCCTGTAATGT[A/C]CTGCTGAGAGTCC ACATTTTGGAAATCCAAT
WI-17996	84	A G	GTAGAGCGGA AGGGAACAG	AGGCACATGGG CAGC	CCCATCCAGAAACCCAGTGTGATGGTGGAGCAGCATGAAACAAACATCTCCCAGGCCTCGGAGT AGAGGCGAAGGGAACAG[A/G]GCTGCCCATGTGCTGTCTCTAAAGACGCCACCCCTCAGGTTGATGT CACCTGTGGGAGACCGGGT
WI-17136	33	C G	---	---	ATTCCTTTATAAAAACACCATGTCCCTAAAATGT[C/G]ATTCAACATATATGCACACCTTCGATGTAT AGGACACTGATCAAAAAGACAGAGAAATGTGTCCT
WI-18041	24	A C	---	---	GCCACTGAAAAAAGGTGCTCTCC[A/C]GTTTCTAACTCCCTGGACTCCCTCATTTGGAACCTGAAGCTC ACAGATGTTTCAGCTGGACTAGTTTAGACTTTGCTGTATTTTAAAGGCAGTGTGATGCTCCAGGAT TCAAATACCTTAATCA
EST35164 8a	57	A G	CACAGCCCTGC OXXC	CCCTCTGGATT CTGAATCTCAA	TTGAACCAAGGCCCTAACAGATGACTCAGCAGGGCCCTTCAAGCAGACGCCCTGCCCC[C/A/G]TCTTGA GATTCAGAATCCAGAGGGTGTCTCAGTCCCTGGTTAGGTGCTTCTGTGACATTTCCCTCTTG
WI-18052b	67	A G	---	---	AGCGAATGAAAATGCTACATAGGCTCCCTGAGTCTTTCATGTACGAATCTTGGTTACACATCTTAGI A/GJACAGCAGAGCTGCCTGAGGGAGGGTGTGTTAATGTCGATGTCATGCTCAGCAGAGTGTGGC ATGGCCCATCCATGCTTT
WI-18052a	50	T C	CCTGAGTCTTT TCATGTACGA C ATC	CTCAGGCAGCT CTGCTGT	AGCGAATGAAAATGCTACATAGGCTCCCTGAGTCTTTCATGTACGAATCTTCTGGTTACACATCTTT AGAACAGCAGAGCTGCCTGAGGGAGGGTGTGTTAATGTCGATGTCATGCTCAGCAGAGTGTGGC ATGGCCCATCCATGCTTT
WI-18054	46	G A	GGGAGTGGGG GAGTAAAA	CGTCACCCTGC TTCCA	CTGTTGTGCTGAGAACAGAAAGGGTCAAGGAGTGGGGAGTAAAA[G/A]TGGAAAGCAGGGTGACG CATGCAGGAGTCCAGACAAAAGACGGGTGATTTTGTCTCAGGTTGGTAGCAACAGAGGTAATG

WI-18064	54 G A A G A	GTAGTGCTA AGCTGTATTTC	CCAGTGGTATG ATTGTGACATT C	CAGTGCCAAATCATCTCTCAACCCCTGTGGTAGCTGCTAAGCTGTATTTTCAGAG/A/GAATGTAC AATCATACCACCTGGGAGAAAGAGTAAGACACAGTGCTTATTAGTGCCAACTGGGTACCTGGGAG GCAGAAA
EST35347 2	97 T C A A	GCATAAAATT TTCCAGTTGGT	CCCTGGGCACC TGCT	TTTAGCACCATTCTTAGTGGAGCAGGATTCTTGATCGGGTGGAATTTTGTGTATCTGGGCTTCAT GGGATGCATAAAATTTCCAGTTGGTAAGT/C/JAGCAGGTGCCGAGGGTCTGGATCAGAAAAAAGG CAGGCA
WI-18070	28 A C GTGTAT	AACCCACTAC TTACTCAGAGT	AAAATAATA AGAACTGGA GGTTTT	AAACCCACTACTTACTCAGAGTGTGTAT/C/JATATTAAACACATGAAAGATAATAATCTTAGAAAA ACCTCCAGTTCTTATTAGTTTGATAATTTCTGTACTCAGAAGCATTTTAGTTGCAAAGGATATAA
WI-18080c	80 C T ---		---	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCTTTGTAAATTAATCTACTATGCCGTG TTTGACTTTTAT/C/JTCTTATGTAAATTGAAGCCAAATGCATGTTAATCCTTCTCCTTTGGTGAT
WI-18080b	65 G A ---		---	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCTTTGTAAATTAATCTACTATGCC[G/ AJGTGTTGACTTTTATCTCTTATGTAAATTGAAGCCAAATGCATGTTAATCCTTCTCCTTTGGTGAT
WI-18080a	41 T C AGTCTCTC	GCAATATATCA ATATCAAACT	CAATTTACATA AGAGATAAAA GTCAAACA	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTC/C/JTTGTAAATTAATCTACTATGC CGTGTGACTTTTATCTCTTATGTAAATTGAAGCCAAATGCATGTTAATCCTTCTCCTTTGGTGAT
WI-18086	63 G A ---		---	GTGGCATCCTATAAAGCAGCCATGTGTTGAACAAATGATATGCACAGAAAGCATCTT[C/G/A] TGGCTTTGTACACGGGTTTCTTTCAAGAGGAAGTAGTACGCCCTCCAGCTTCTGCAGTCTAGC TTAGGAGAGGGTGTGAA
WI-18115b	71 C T ---		---	AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAGCCCTTAGTGTACCTTTGGTATCCC TTC[C/J]TTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATACAATGTAAAGAAAGGGGTGAG TCAGT
WI-18115a	70 C T TT	TTAGTGTACCT TTGGTATCCC	AGAGGTCTGTC TTTCATACCAA A	AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAGCCCTTAGTGTACCTTTGGTATCCC TTC[C/J]TTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATACAATGTAAAGAAAGGGGTGAG TCAGT
WI-18136	78 A G ---		---	TTTTGAGAAGCACTCTGTAAGGCAAGGATGCATTCAAAAATGGCTTTGAGGATTAACTTCTCTTTA GGTAAATTTGC[A/G]TAAGAACAATAAAAGCATTTTAAAGTCCACTGCCGCTTAGAAACT
WI-18169	115 A G GAAGCTC	CCATCTTTCCG	GAGTTCTGCTT GTGCTCCA	GGCAAAATATTTTACATCACACCTGGAATCTGCCCAAGTCTTCCACTATGAAGGCAATCGTAGAG TGTGCAGGAGGAAAGGTGTATCCAAAGCAGCCATCTTCCGGAAGCTC[A/G]TGGAGCACAAAGCAGA ACTCGGTGGGTAGAGTGA
WI-18190b	26 G A ---		---	TGAAAGAAGTCGACACAGCGGACACT[G/A]TCATAAGTGGAAACAAAGGATGAAGCTAATCATGGAG GCAAGCTCCCTGGAGAGACAGGGACAAAATCAAGATGAGCTGGAGACATTAACTCTGGCGA

WI-18190	62	G A ---			---	TGAAAGAGTCGACACAGCGGACACTGTCTATAAGTGGAAACAAAGGATGAAGCTAATCATGGA[G/A] GCAAGCTCCCTGGAGAGACAGGGACAAAATCAAGAATGAGCTGGAGACATTAATCCTGGCGA
WI-18181	100	A C CAGATC	AAATATATAC AACACTCCCTT	CGTTTACCAT TTGTTAAGCTT TTG		GACAGTGAACACATTGAAACACAAAATACAACAAAACATTAGGAACAAGAAATGTGTAAATCCAA TGTGTGAAAAATATATACAACACTCCCTTCAGATC[A/C]CAAAAGCTTAACAAATGGTAAACGTA TGTGTTCTTGAAC
WI-18215	78	G A CTGCCCTC	AGCAGAGTTC	CCTCCCTCTCT CCCC		ATTACATACAAGCAATTCCTGAGTACAAACTAGGGGACAGGTATTTACAAAAACAAATAGAGCAGA GTTCTGCCCTC[G/A]GTGTGGGGGGAGAGAGGGGATTTCAGCAATTTGGTGGAGTATGTTAATT CCCTCAAGTTAATTCCTC
WI-18232	60	T A A A	TGGTGTGATT GTGATACACTT	AAATAAAGGT TTTCAGGGGT C		CATTTCCGAAAATCTGATAGTTAAATATCCCGTCTGGTGTGATTGTGATACACTTAAGT[A/GAA CCCCTGAAAAACCTTTAATTTGAAATTGAAGTTTTGCTCAGAAACTGGGCAGAACTTTTCACACTTCG AC
WI-17892	76	T C A C A	GGAAAACCTG AGTTTGAGATC	CACAGAAGTG AATAGACTAGT GAGACA		TTTAAAAATGCTTAGAATTTCCCTCAGTATTTATCAATAGTGTGAAGCTGGAACACTTGAGTTTGAG ATCACATAT[C]CTGTCTCACTAGTCTATTCACTTCTGTGGCATTTCGGCAGAAGTGGC
WI-18242	30	G A AATCGTAACA	CCCCAAATGTT AATCGTAACA	GCTAACACTTC TACTGTAACAG CTTTC		AATATCCCCAAATGTTAATCGTAACATACT[G/A]GAAAGCTGTTACAGTAGAAGTGTAGCAAAAAT TGGATGCCACAACCTTATCTCACCACTCCCTTCAAGCAAGTGAGGGTCAGAATGTTCTTGCCTATATC TGCAAAAGATCGAACAAG
WI-18266c	119	C T ---			---	GCATCAGACATCACCACTCCTGAAAAAAACCTTCTACAAGAAATTGAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAACCTGCACAAATGATGCATGAATC[C/T]ACATTTGAGAC CCGCAACTCCGAGGTACCT
WI-18266b	124	T C ---			---	GCATCAGACATCACCACTCCTGAAAAAAACCTTCTACAAGAAATTGAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAACCTGCACAAATGATGCATGAATCCACAT[C/T]TGAGAC CCGCAACTCCGAGGTACCT
WI-18266a	97	C T T TCAAA	AAATAGGAAA TATGGACTATC	TTCATGCATCA TTTGTGCA		GCATCAGACATCACCACTCCTGAAAAAAACCTTCTACAAGAAATTGAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAA[C/T]TGACAAATGATGCATGAATCCACATTTGAGAC CCGCAACTCCGAGGTACCT
WI-18312	73	A G A A	GCTGTCAGCTA TTGTTATTCA	GGAGAAAAGG GAGCAGAAGA		CTGAGCCCTCTGGATATGTGGTTTAGTGTCTATCATTAAATTTGAAAGCTGTCAGCTATTGTTATTTG AAAT[A/G]TATCTCTGCTCCCTTTTCTCCTTTTCTGGGATTCCTCATCTGCATGTGTATA
WI-18330b	66	A G ---			---	AAACATCTACAGCTGCTTAGGCCATCCTGTGAAGAAATCAGGGATAAGAGCTGAGGAACAAGAGGG[ A/G]TATGTAGGCAGTGAGTCAGGACTATGCAAAAACCATAAAAAAGAACATAATTTTTTTGTTGAT TCACA

WI-18330a	49 G A A A G A	TCCTGTAAGA AATCAGGGAT	AGTCTGACTC ACTGCCTACA	AAACATCTACAGCTGTCTTAGGCCATCCTGTGAAGAAATCAGGGATAAGA[G/A]CTGAGGAACAAGA GGGATATGTAGGCAGTGTAGTCAGGACTATGCAAAACCATAAAATAAAGAACATAAATTTTTTTGTTGAT TCACA
EST37564 5	85 T C A G A	AAATTCAAGC CATCTACAAA	CTATGGAGGCC TCAATGAGA	AAATTAGTAGCCATAACAGGCTGGAATTGCTGGTTAGAATACTGCATGTTATTTAAGCTAAATTC AAGCCATCTACAAAAGAT[C]TCTCATTTAGGCTCCATAGGCTGCAAAACACATCAAAAGGCATTAC TGTACTGGAGAGGACTGAG
WI-18327	104 G A T T	AACAGCTTT CGTTAGGCTAG	CGCATACAATG GCTCAGC	CAAAAGGATTTTATTACCTACAACAAGTAAGGAGGACAGCTGGGCAGTTTCCCAAAGCAGTACCTC CCAAACAATGGTGAAACACAGCTTCGTTAGGCTAGTT[G/A]GCTGAGGCCATTGTATCGGAGGCAGAGA GT
EST37624 6b	102 G A ---		---	GTGGCAAGAGCAGCTAAAACACACTCATTTTGCATGAACCTCCAAATACGAACAGTGCACGCTGATGG CCTGGAGTCTCTGCCGTGCTTGGCTCTCTGGACG[G/A]TTCATTCTACATGGCTGCTGCTTTGCGTCC TCTGACCTCCCCATTCC
EST37624 6a	58 C T ---		---	GTGGCAAGAGCAGCTAAAACACACTCATTTTGCATGAACCTCCAAATACGAACAGTGC[A/T]GCTGA TGGCTGAGTCTCTGCCGTGCTTGGCTCTCTGGACGTTTTCATTCTACATGGCTGCTGCTTTGCGTCC TCTGACCTCCCCATTCC
WI-18357	89 C G GCATCAA	CCAGCCCTTA GCATCAA	AAGACTCAA AGACTGAAGAT GA	AATGTTTTAAAGTCTACCGTGTGAGGTGGCCATGAAGCCCAAGCCCATGGAGAGACATTTTCAGA TAATCCAGCCCTTAGCATCAA[C/G]TCATCTTCAGTCTTTGAGTCTTCCAGCCCAAGGTCCTCAAGCTT GTGGACCAGAGACAAGCC
WI-18012g	117 A G ---		---	TTTTATCTGGTCAGCTCCTCTTAATGGCCTGAAGGTGATCCTCTTCAACTTTCAGACTTGAAG ATCCCCGCTGTCCACTCTTAGAAATTGAAGCCACTTTTGCCCCCTCGTGA[G/G]GTGTTTCCCTGATACA CGCTGACGTTTCGAGGG
WI-18012f	113 G A ---		---	TTTTATCTGGTCAGCTCCTCTTAATGGCCTGAAGGTGATCCTCTTCAACTTTCAGACTTGAAG ATCCCCGCTGTCCACTCTTAGAAATTGAAGCCACTTTTGCCCCCTCG[G/A]TGAAGTGTTCCTGATACA CGCTGACGTTTCGAGGG
WI-18012e	112 C T CCCTT	GCCACTTTTGC CCCTT	TCAGCGTGTAT CAGGAAACA	TTTTATCTGGTCAGCTCCTCTTAATGGCCTGAAGGTGATCCTCTTCAACTTTCAGACTTGAAG ATCCCCGCTGTCCACTCTTAGAAATTGAAGCCACTTTTGCCCCCTTC[G/A]GTGAAGTGTTCCTGATACA CGCTGACGTTTCGAGGG
WI-18012b	46 T C ---		---	TTTTATCTGGTCAGCTCCTCTTAATGGCCTGAAGGTGATCCTCTTCAACTTTCAGACTTGAAG AGATCCCCGCTGTCCACTCTTAGAAATTGAAGCCACTTTTGCCCCCTTCGTGAAGTGTTCCTGATACAC GCTGACGTTTCGAGGG
EST38390 4	75 A G CTCTGCATTG	GCAAAAAGGA CTGATTATAAA	GCTAAAGTCAG CTGATTATAAA ACTTAA	CATATCATAGCCAGATCTACAACCCAGAGTAATCCCATGGTTATGTTACATGGCAAAAAGGACTC TGCATTGT[G/A]TTAAGTTTATTATCAGCTGACTTTAGCATTGGGAGATTATTCTGGAT

EST38512 7	91 T G	TGACGATGCC AATACCTCG	CACTGCACTCT GGGAAGC	TAATAAAAACCTGACCCCAATTGGTAAACTGTCTGGACTGAGAGAAACAATGAAAAATCTGTAAAT ACCTGATGACGATGCCAATACCTCGT/G/GCTTCCCAGAGTGACGTGAATACGTATAGCC
EST38519 0	24 C T T	CCTGCACCTCC TAAAAGATCT	TCGTGTAGGAC TTGGGGA	CCTGCACCTCCTAAAGATCTTTTC/TJTCOCCCAAGTCTAACAGAATGGTATATTCCTCTGGAAAA AGATGAACGTCAATCAATGGATTGTGCTGCTCTCGTTTCAGCTTTGATTTTTTGTCTTGAGAACCTTG TCCTCCCTGCTGATTT
EST38575 1	66 T C A A	GAACATCCCA TGTTCTGTTT	AGGGAAGGA GTATAACACAT AAGAGA	AGTGGTCAATGTAAACTAATGGGGACACCAAGCCCTCAGGAAGAACATCCCATGTTCTGTTTAA T/CJTCTCTTATGTGTATACTACCTTCCCTTCTCTTCTTATACACATAGATTTTCCTTAATTGCAGC CCA
EST38616 9	101 C G C T T C	CCTGCTCCGCC CTTC	GAGGAATGGAT GGTGGC	CCATCTAGGCAGGCTACCTGAGCTCTCTGTGCTCCAGAGTGGGTGCTCACGCCCGGGCCCCGTGG AGTCTCCGGGGCCCCGCCCTGCTCGGCCCTTC/G/GGCCACCATCCATTCTCTCCAGGGG
EST38652 8	59 T C C A T T T C A A	TCTGAACCTGGG CATTTCAA	TTGCAAAAAATG AAGGAAAAA	TATAGTAGGTACTTTCTTCTGCTGCAGCAGGAATATTACGTCTGAACCTGGGCATTTCAA/T/CJGCGTG GTATTTTTTCTTTTCATTTTTTGCAAGTAAAAAATCAT
EST38654 5	42 T C G T T T T A C A	AATGGTCATTT TAATATATCA	CAGTGATGGTC CTTAATCTTCT ATC	CTCAAGCTGAGAATGGTCATTTTAAATATATCAGTTTTTACATA/T/CJAGATAGAAGATTAAGGACCAT CACTGAGGTCACATAGCTCAGAGGCAGAGTTAAGATTTGGACCCAGGAGTTGGTCCAGCATATA GGATCCTCACTCACCTGGGACAGCCTGAGAAAGGGACATCCACCAAGACCTACTGATCTGGAGTCCCA CGTCCCCJAGJAGGCCAGCGGATGTGTGCCCTCTCTCTCCCAACTCATCTTCAGGAACACGAGG ATTCTTGCTTTCTGAAA
EST38707 9	75 A G ---		---	TGACCTTGATTTCTCACTAGAGGGGAGAAGAAATCACCTACCTTTTGGATGCCCTCCCACTCACTTGT CTCCCTGAGGTGATATGG/A/GJCTTAAGTCCACGATGGTGACCTAACTCAGTTTAAATTTCTTGCC TAGCAGCACC
EST38759 2	86 A G G G T A T A T G G	TGCTCCCTGA GGTGATAGG	TCACCATCGTG GACTTAAGG	GACTCTCAACCAAGAGAAAAATCAATAGGAGAGGATTGGCT/AJTTGAATTCAGAGCAAAAGCCCT CTTACTGAGAGGTGAGCCCCCAGCCCCCTCCAAATGCCCTTTCATGAGTTAGGATCTCTAAGTGGTAC AAACAAACCAACATGGTGG
EST38775 1	40 T A C	AATCAATAGG AGAGGATTGG	GGCTTTGCTCT GAATTCAAA	CACCCCATATTTGACCAAGGATGAAGCCTAGCCATGCTCTTCACTTATGTGTGTTTCAACAAG TGTTTATGAGAACCCATTACACA/C/AJAAAGCATGTGCCAGTCAGCAGATTCTGTAATAA
EST38815 4	TGTTTATGAGA ACCCATTACA		GCTGACTGGCA CATGCTTT	TCCTTACTGTGCTTACAACCTTTCTCTCCAAGTTTCGGGTGGTTCCATATTTGTTATTGTTATTATTA TTCAACACGAGTAAAAAGAACTCATGAC/C/TJTTCTCCTTGGACTCGCTCTCTCCCCAATCTCGAT ACCGACTGCACTGTTG
EST38858 4	CACGAGTAAA AAGAAACTCA		GGAGCGAGTCC AAGGAGAA	CCTTAATGGATTTTACAGCTCATCTGAGTCTCTGCTGTGTTCTCTGAGGAGCTGTAGAATTTGTGTCG ATGCT/CJCTGTGTCTCGTCTCTCCCCAAATGAGCACATATGCAGGGCAGGCAAGAGCATGCTGGA TTTGTCTTAGTTGTTAA
EST38865 2	GCTGTAGAATT TGTTGCTGATGC		GGAGGACGG AGGACACAG	

[illegible]

EST39236 0b	57 C G	TCATCTGAGA ATAAACCTTCCT GTCT	CATTATAGGTA CTGAGTCATAC ATTAAACA	TCCCTTTTATTATCATGATTTGTTTCATCTGAGAATAAACTTCCTGTCTAAATTTTCCAAIC/GIACIATGTT TAATGTATGACTCAGTACCTATATGAGACTGGAAATATATTACCTGGCAAATGAATGAGGTGTCTC TTT
EST39294 4	63 G T	CCTGAAACAG GGATGCC	GCACAATTAA ACATAGTACCG AGAA	CAAAACAGACCTTTGGTTTGAGCTCACTGGTGACAGGAGACTCCTACCTGAAACAGGGATGCC(G/T) TTCTCGGTACTATGTTTAAATTGTGCTGAGCCAGCAACCCTCGAGTTACOCGGCCTTTTACCCACGCC AGCTCTGCTTGCTGTCAT
EST39366 2	72 T C	---	---	AGAAAACATTCTGTCTGATCAGAGGAAGATGTATGTAGAAAAATCAGAAATCTGACTGAATTCCTAAA ATCTATT/CJACACTGAGAGGAAAATGGAAAAGAAAATGTTTGCATAAAGCTTTTCCCTGACTCTCA GAGGGGTTTCAGA
EST39371 9	86 A G	CATTGGATTA GCGTGAGAGG TT	TGATTTGAGAC ATTTACATTT TT	AAAAGCTGTAGCTGGCAAGTCAAAAGTTTATTTATGTGTGTAATTCOCAGTTGAGCAATTTTTCAT TTGGATTAGCGTGAGAGG(A/G)AAAAATGTGAAATGTCTCAAAATCAAATGCTTCCTTCTAAAGATTAA GACATTGCCCAACCCCTGC
WI-17177	23 A G	---	---	ACAAGTGACATATCCAACCAACC(A/G)TCCATCCCCACCTGTGCCCTATTCTTCCTGTGTTCTTT AGAGCCTTTTCAGCTATTCTCTGTGAAGCAAACTGCAGGAAGGCTCCCCCGTACTCTCCOCCGTGAA G
EST39428 8	31 C T	GCTCCCCACA ATTTTGATT	GGTCCCTTAG AAGCCACC	AGGTTCTCTGGTTGCTCCCCACAATTTTGATT(C/T)GGTGGCTTCATAAGGGACCCAGGATTCTGCATT TTCTGGGTGGGCTAGGTAATCTGTGCTTTGGTCCACAGAGCACAAITTAAGAAGATCAGGTCT GGCTGTTCG
EST39430 2	45 A C	GGCAGAGGAA TAACTGATGTT A C	CAGGGGTGGG GTATTG	AATTTAGCAGAAACAATGAAGTTGGCAGAGGAATAACTGATGTT(C/A/C)CAATACCCCGACCCCTGA CCAGTACCTTTCCCTCAGGCCCAGGCTCCGGTGGAGGATGTCTGGG
EST39446 7b	117 C T	CTACTGACAT AGGACTTCA GAGTAA	TCCTGGAAAAC TGACATAAACC	AAAGCCCTGTAAACTGAAGCTAGACAACGTCAACTTTTGGAGAAAATAACAGGAACCTATTTATAT ACGTAAATCACTTTTCATACCTGCCTACTGACATAGGGACTTCAGAGTAATA(C/T)GGTTTATGTCAGT TTTCCAGGATTGTTCTCCC
EST39465 2	80 A G	AATGCAGGAG GGTGGC	CAATCTCGGC CCTCT	ATGGTGTCAATTAGAGGGCCACAGGGGATGGGGAGTAAAAATAACATAAACGAACCTGAACAGAAA TGCAGGAGGTGGC(A/G)AGAGGGGCCGAGATTGGGTGTTTCAGGGCAGAGAGGTGGAAGACCAG
EST39501 0	81 A G	AAAGATTCCT GTAGACATCT AACATTAG	CAC TTGCAATT CTGAAGGCT	TGCTTACAACCCATAACCATAGGCCCATGTGTTTCAGACATCTTGACCAGCCCTAAAGATTCTGTAG ACATCTAACATTAG(A/G)TAGCCTTCAGAAATTCGAAGTCAAGTTCAAGTCAAAACCAATTC
WI- 18387b	84 A C	---	---	CACAAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGACCCCATACATTGTGGTCA CATGCTTTAGCCATAC(A/C)CATGTGTAACTTACTGACTATGGAGTCTTGTGAAAGTGTAAATGTGCGATG GCTATGTAGACATAAAGA



WI-18387a	57 A G	CCTTACTTTGG	GCTAAAGCATG	CACAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGACCCCATACAGJTTTGTG
EST40601	78 A G	GGTGGAACTT	TTCTTGGGAAGA	GTACATGCTTTAGCCATACACATGGTAACATTGACTATGGAGTCTTGTGAAAGTGTAAATGTGCGATG
		AGTGTATCAC	ATCTTCAGGAT	GCTATGTAGACATAAAGA
EST41935	32 A G	AGGT	ACACTGTTA	TCCCAGGATGGTTTATCCAAAGCTGTGGACGGTGAACATTAAAGACGAAAGAGGTGACTCGCGTGGA
		CAATCTGGTCT	AAAACGTGATTT	ACCTGAGTGTAGAGGAGTCTCCCGAGAGTAGCAGTTGTTGA
EST43091	28 C T	CA	CTAC	ATGTCATCTGGTCTTTATTTTGGACA[C/T]GTAGCATGTTTTAAACAAATCAGTTTTTCATAGGCAA
WI-18420c	108 T C	TTCCATTAAAC	AAATTCTCAGC	CTTTTGAACATCAAAAAGAAATACAATATATTTTCAAAAATTTCTCATCTACTGTAAATTC
		AGGAAGTTTC	ATTGCTATAAG	AGAGAGACAACAAGAAATAGGGAAATGGGAAGAACAGAGTGAATTAAGGCAAAATCTTGA
WI-18420a	38 C T	AA	TC	TTTCATAGGTACTTCATGGGA
		GAATAAGGGA	CCAAGATTTGC	AGAGAGACAACAAGAAATAGGGAAATGGGAAGAA[C/T]AGAGTGAATTAAGGCAAAATCTT
WI-18425b	101 T C	---	---	GGATTTCAGATTCATTAAACAGGAAGTTTCTCAAAAAAATCAAAATGCTTATAGCAATGCTGAGAA
		CACCCGTGCTCT	CCTCCTGTGT	TTTCATAGGTACTTCATGGGA
WI-18425	81 A C	AGACAGATT	TGTGTGCA	AGCTGATCAGCTGCTGTTACTGTGTTTATGTGTGCCCCAGGAAAGCCAAAGATCAGACACCCCTGTC
		CTTTTGGCTCT	CTCCCTGACT	CTAGACAGATTCAATGCACACAACAACAGGAGG[C/T]GGGGGTACACGGGGGAGAGCCAAAGAC
WI-18449	129 C T	AAGTGGGACT	GTATCCAGA	TAGGGC
		---	---	AAATTGAGGTCGGGTGGAACATAAAAAAGGAAAGGAAAGAGAAATCAAGGGAGGCGCCAAAGTG
WI-18457	120 T C	---	---	GGAAAGCTGATTGCTGATCTAACGTGCTGTTCCAGTTCTTCTTTTGGCTCTAAGTGGGACTA[C/T]TC
		CCACAATGGC	TTTAGGCTTTG	TGGATACAGTCAGGGGAG
WI-18462	39 A G	AGAGGTGA	AGATGGTTCT	ATCGCTTCATTGAAGCCTGCTTAATTTCTCTCAGTCACTGGTGCCCCCAAGACATTTATTTATCTT
		GGTGGGGTGC	GCACGATGGGA	AAATGTCCAATATCTGCCTGATGCTGTGTTTGTGCACATTTGGGGCCACAG[C/T]AAATAGGCTAAA
WI-18476	60 C T	GAGG	GTGACC	AGGCACTCCACCTGCT
		---	---	GGTGCTATAGCTGCTGTACACCACAATGGCAGAGGTGA[G/T]AGAAACCATCTCAAAGCCTAAAA
		---	---	TAATTAACATACATCCCTCACAGCAAAAGTTTGCTATCTCGGGTTTAGGACTCCATTGAG
		---	---	TGAGGACGTGTGACAAGCTCCAGCAGGGGTGGGGCCGGGCTGAGGTGGGGTGGGAGG[C/T]GGT
		---	---	CACCTCCATCGTGCCCCCTGGCCGTCCTCCACTCACCCACACCTGGCCCCAGTCCACGTTGAGGT



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WI-18491	109 G A	AACAAATGGT AGGTGGTATT AATACTATT	CGTGTGCATTT TCITGTAATCC	CTAATGAGATGAATACATGGAAGGCGTTTAGCACAGTGCCTTAAACACACAGTAAGTAACCAACAAT GGTAGGTGGTATTAACTACTATTATTAAATCCAGAAATGAC[G/A]GGATTACAAGAAAAATGCACA CGT
EST50757 b	79 C T	GAGCTCGAGG CTGCTTCT	ACCTTCACCC GCCC	AGCCCCCTCCACTCCACTCTGCTTCCACAAAAGTCGGCTCCCGAGAGCTCGAGGCTGCTTCTTTTATAT GTGACGGGCC[C/T]GGCGGGTGAAGGGTCAGAGA
WI-17675	103 T C	GGACATTGG ATGGTGACTT	GGGGAACCAAC CAGG	GATCTTGGAAAGCACTAGAACTAAACATCTTCACCAGGTGCTGAAGAAAAAGTGTCTTCGTTTTAAT TGCCAAGCAGGGATGTGGACATTTGGATGGTGACTT[C/C]CTGGGTGGTTCCCCATAGATTCAACCAT TGCTCTAATGGTGCTA
WI-16543	67 G T	AGATAAACTA CATTTGGGTT TGG	GATTCATCAIT ACAGGGGACTT	GATCCATTACCTAGGGTAAATTCCTCTGAATGTCAAACAAAGAGATAAACTACATTTGGTTTTGG G/TJAAGTCCCTGTATGATGAATCAAGAAATCCTCAAGTCTGCTTGGCACCCATTTAATACGTATT TTTGTTAAGGCTGAAGTT
WI-17687	107 C G	GCCAAAAAGG TTGGGGA	TTACTTTTGT CCGACCAGCA	ATCTGAGATGGAAGAGTTTCATCCCAAAACCATCTCCCCCTGACCCCAAGTCCATGGAAAAATTGTC TTCCACAAAACCGTCCCTGCTGGTGCCAAAAAGTTGGGGA[C/G]TGTGCTGGTACAAAAAGTAATT G
WI-17690b	79 A G	---	---	ACAACATGTGAAAGAAGATATGTTGTCTTTACTCACAGTGGAGGCAATTTTCTAGCTGTGTTGATTT GGCTTCCCTAT[G/G]ATTACAGACCCCACTCTTGTTCACACTCATCTGCTATGCTGCTG
WI-17690a	63 G A	AGGCATTTTC TAGCTGTGTT	CAAGAGTTATG GGTCTGAATC	ACAACATGTGAAAGAAGATATGTTGTCTTTACTCACAGTGGAGGCAATTTTCTAGCTGTGTT[G/A]A TTTGGCTTCCCTATAGATTACAGACCCCACTCTTGTTCACACTCATCTGCTATGCTGCTG
EST51717 b	128 C T	GCGGAAGACA GTGAGCTGTT	TTGAGGCAATA ATCCAGCTC	GATCCAATCTCAGTGTCTAACTCATATCCAGATTTATTTCTGAAGTGGAACCCCTCCGACCCAA TGGCAACATCACCCACTACCTGGTTTCTGGGAGAGGCGGGAAGACAGTGAAGTGTGTT[C/T]GAG CTGGATTATTGCCTCAA
EST51717 a	39 C T	---	---	GATCCAATCTCAGTGTCTAACTCATATCCAGATTTATTTCTGAAGTGGAACCCCTCCGACCC CAATGGCAACATCACCCACTACCTGGTTTCTGGGAGAGGCGGGAAGACAGTGAAGTGTGTTGAG CTGGATTATTGCCTCAA
EST53012	97 C T	TGGTCACTTG GGGOC	GGCTCTGCCCC GGOC	TTTCCAGGTTGACAGGTTTTATCCACCCCTTCCATCCCTGCCCCATGGCCACCCAGGAGGAGGACAG GTGTGCTGGAGTGTGTCATTTTGGGGCC[C/T]GGCGTGGGAGAGGCCACTGGGTTTACATTCTCTGT GGGCAGGTTGGACAC
EST53349	96 A G	TGTTGAAAGC AGTCACAATG TAC	CATCTGGATAT CTTGTACATT TT	AAACTGCAATAACAAAAACAAAGAGTCCAAAGGCTAAAGTCTAAGCTATAATTACACATG AAGTATATGTTGAAAGCAGTCACAAATGTAC[G/A]AAATGTGACAAGATATCCAGATGTTTAA
EST53389	74 A G	GGAGACCTGC AGAACTTAA CA	GGCCTTTCTAA CAATAAATGCT C	TTTCGAAATGTCTCCATGACTTGACAGACTGAGAGCCAGCCAGCCAGGAGACCTGCAGAACT TAAACAC[G/G]GAGCATTTATTGTTAGAAAGGCAAGTCTTACACTCAATAGGTTTTAACATGAAC ACATTAAAGGGAGATGGCC

[illegible]

EST98276 b	61 A C ---				GAGTCTGCTATGTTCCAGGATGGTCTTGAGCTCCTGGTTTCAACAATCCTCCTCTTAC/CJAGC CTCTAAAGTGCCAGGATTATAGGTGAGTCACA
EST98276 a	22 A C TTTCCAGG	GTCTTGCTATG	AACCAGGAGCT CAAGACCA		GAGTCTGCTATGTTCCAGG/CJTGCTTGAGCTCCTGGTTTCAACAATCCTCCTCCTAAGC CTCTAAAGTGCCAGGATTATAGGTGAGTCACA
EST98800	53 A T ---				GCCTCCAGCTGCATGACTCCTAAGCCATCATTTGGAAGATTTGGCTAATTTG/ATTTAGTCTTACAA AGGAGTCTAGTTCACCAAGCAAGAGGGGTTTGTTGGGAAGCGCTGCTATCTTTGTTTCAAC TGTAAGCAAGTTCCCTC
J02931	138 G A GTAA	CAGCATTAGTC ACTTTGAAAT	TTGGAATTGGT TGTAAGTACCAT T		AGAGGATAGAATACATGGAAACGCAATGAGTATTTCCGAGCATGAAGACCCCTGGAGTTCAAAAA CTCTTGATATGACCTGTTATTACCATTAGCATTTCTGGTTTGACATCAGCATTAGTCACCTTTGAAATG TAAC[G/A]AATGGTACTACAACCAATTCGAAGTTTAAATTTTAACACCATGGCACCTTTTGCACAT AACATGCTTTAG
L41680	88 G A A	GAGAAATCGA CTACCAGCTG	TTTAGAGCACT TTGCAGGTATT T		GGATCCAAAAACACGGCTGGTTTCAGCATCCACCAATGAAGTGAATAAAGGACGTTTCATG AGAAATCGACTACCACTGAT[G/A]AATACCTGCAAGTGCTCTAAAAATTAATAATTTTGACTTT AAGGGTCTAGTAAGTGCCACTCCACTAAGAAATACAGTTTGAATGTATAATCAGTAGTGTTCACAA GATCCAAACAGTGCACTCA
M15796a	84 C G ATATGTAGA	CAAAATTTGTA CCTCTAAGTAC	TTGGACTTTAT TCTTTAAACAA ATTG		CTTTCTGTCAACAAATTTGTACCTTAAGTACATATGTAGATATTTCTGTAAATAACCTATTT TTTTCTCTATCTCT[C/G]CAATTTGTTAAAGAATAAAGTCCAAAGTCTGATCTGGTCTAGTTAAG CTAGAAGTATTTTGTCTTTAGAAATACTTGATTTTTATAATACAAAAGGGTCTTGACTCTAAAT GCAGTTT
M20472	103 C T C	GTGAGTTCCT TTGGACCAAA	ACAATGAACA ACTCTAAAGAC AAAAA		AGAGCCACCTGTGGAAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTC ATTGGATTAAATTTATGTTGAGTCTTTTGACCACCAAC[C/I]TTTTTGTCTTTAGAGTTGTTTCAATGTTTG TGATTGCATGTTTCTCCTTCAACTGTGTTCTCCCTGGCATTTCAGAGAGGAGGAGGAGGAAGA CCCTCTGACCTGCAGGCCAAGAGCAGAGGCGAGTTGGGGAAGCCCTCTGCTGCCATGGT[C/G]T GTCCCTCTCGGAAGGCTGGCTGGGCAATGGACGTTCCGGGCATGCTGGGGCAAGTCCCTGACTCTCTGT G
M32315b	129 T C CATGG	GCCTCTGCTGC CATGG	GCCTTCCGAGA GGGACAC		TTCCAGGAGCAGCAAGGGGCTGCTGAGCTCTGGTTAGTTACAGCTGGAGGTGTGTATATACACA CACACACACCGTGTATATACACATATATATGTTATGTTATATATATATATATATATATGCTTTT[C/T]C AATAACCACCTAAATTTTAAACAAAGGTTCCCTCTAAGTGGTAGAACCTTGGGGTGGTATTTTACCTTC CTTCT
M33875a	131 C T GAGGTGTGT	GGTACAGCTG GAGGTGTGT	ACCTTTGTTAA AATTAGGTGG TTAT		
TIGR- A003M18 a	29 A G CT	TTTTGTAGAG ATGAGGTTTTTC	GGCAGACGGAT CACTTGA		TGTCCTTTTGTAGAGATGAGGTTTTCCT[AG]TGTGGCCAGGATGGTCTCGAACTCCTGACTTCAA GTGATCCGCTGCTGCCCTGGCCCTCCCAAAAGTGTGGGATTATAG

TIGR- A003P30	117 C G ---	---	---	ACAAATTCAAAGGAGAACTTCCTTTGTTTAAATGCAGCTGTGCTCAGAAGCCCTGTGATTTCCCTAGGA AACCATCTGGTTTAGCCCATTAGAAAAATGCAGTTTAAAGCAGTGTCA[C/G]ACTGGCTGCCTGAA GGTACCCCTGGAGATACT
TIGR- A004S34	156 C T A	TTAAA	TTAAA	GCTTGCTTTTATGTTTAGTTGGGGGAAAGGAGGGCTGACAACCGCAGACATCTGGACACCAGC AAGGGTCCAGGGGAGGTTTGACAGAACTTCTTTGTCTTGGCTAACAGTCTGTGACAAATAGCCA AACCTCCTCATTCCTATAAA[C/T]CTTTAACAAAAACAGTTAGCTGTTTACAAAAACAGTTAGCTGTT TACATG
TIGR- A004T44b	97 A C ---	---	---	AACAACAGTGAATCTTTAAACAGGGGATGTTAAAGGTAAAGAGTCAAGGAAGATAAAACCAAAATGAT TGAGTATGATAAAGAAATTTTGCATGGCGATT[A/C]AAATAGAAAACCTATAAATGTAGAAAAAGCA GGTCTGGACTTAGCAAAAGAAACAATATGACTTAGCAAAAGAAACAATATAG
TIGR- A004T44a	69 G A TGA	GCAAGATAAA CCAAAATGAT	GCCATGCAAAA TTCATTATCA	AACAACAGTGAATCTTTAAACAGGGGATGTTAAAGGTAAAGAGTCAAGGAAGATAAAACCAAAATGAT TGA[G/A]TATGATAAAGAAATTTTGCATGGCGATTAAATAGAAAACCTATAAATGTAGAAAAAGCA GGTCTGGACTTAGCAAAAGAAACAATATGACTTAGCAAAAGAAACAATATAG
TIGR- A004V08	60 T C GGCATTCTTT	AAAGGC	TCCTCCACCA	CCTACAATCCTATAATATTGCAAGGGTTGGGAAGGATGCAGGAAACAGGCATTCTTAT[C/G]GCC TTTTGTGGGAAGGATCAATTTGGTGCATGCACCTTTAGGGGACAAATTTGGCAGTAGCTGTCAAATTTG AGTAGCTGTCAAAATTTCAAA
TIGR- A004V26	125 A G ---	---	---	TCTAGCTATAAGACCAGATTTTAAATTTCTAGATATAGAAATATCCAGAATAATTTCTATTGAATTGA CTGATTACAAAATGTTAACAGCTGGATAAACGGTAAATATGCATTATCTTCACATGA[A/G]AAGGT TTCAGTTTATAAATGCTTAAATACTGTATCTATTGCTTAAATACTGTATCTATTGG
TIGR- A004V28 a	29 A G CGATCTC	CGGAGGTTGCA GTGAGC	CGGAGGTTGCA GTGAGC	CCAGGCTATAATGTTGGGTGCGATCTC[A/G]GCTCACTGCAACCTCCGCTCCAGGTTCAAGCAA TTCTCCTGCCTCAGCCTCTTGAGTAGCCGGGACTACAGGCACCCGCCACCGCACCTAACTAATTTTTG TATTTTTTAGTAGAGACATTGTATTTTTTAGTAGACACAGG
TIGR- A004X20	25 T C GA	TTTGAATCTT	TTTGAATCTT	TAAGTTTTCTCTCTCTGTAGGA[T/C]GTCTCCATGTTACAGTCAACTATAAACATGGCTCATGT TCACTCTGGGCTCGCTTCAGAGGAGTTTGATATTTTGGAAAGTGGTACCTTTGTTCTGTGTCTTTTCA GACCAACCGCTCTCTTCATTCTTCAAGGCTCTCTCCAAAGGAGTTAAATCATCATGTGTCOAATC ATCATCATGTCTCT
TIGR- A004X30	26 T C CCAC	AGAGTAGAAC	AGTGTTTAAAA CTATTTT	TTTTGAAATCTTAGAGTAGAACCCAC[T/C]ACTCTAGTAATACTTGTAAATAAAATAGTTTTT AAACACTTCCATAAAGAAATAGGGTGCCCGCAGCTCCTTGATTTCCCCCTAGGGATAAAGATATCCAT GTTAGGGATAAAGATATCCATGTAC
TIGR- A004Z04	102 T G ATGCAAACT	AAGCAA	CTTATAATTAG AAATTTTCATGA	CACGGTATATGCCTTATATATAGGTATATATACAGATCGTACACAATATATTTAACAGTTTGACATG GGGTCCACAGTACCTTCATTGGGTATGCAAAAC[T/G]TTGCTTTCATGAAATTTCTAAATTAAAGG ACTGTTGCTTCTTCATATTCAATGGACATTATACAAAAATACAGTCTCTTTAGTGATTTAAGACGTC TCTTTAGTGATTTAAGACTG

TIGR- A004Z19	85 C T	GAGAACAACT	AAGATGGTCAT CGGGAAGA	TAAGTGGAGACAAGTTTATTGGAGGAGCTTGACACCCCTCTCTGCCCTAGCTTGAGAGAACAACCTGC AGCATTTTTTCTTTTTC/TCTCCGATGACCAATCTTTGGCTGGCGGGCCAGGCCCTGGGTGTC TCCCATATCGCTGCTTTTAGTGAGACTGAGGATCTGGTATAAGGAAACAGATC
TIGR- A004Z42c	89 C T	TTGGGGGAGGT AGGAGACT	CAGGGCTGCCG GTCC	GTCTTAGCAGAGGAGATAACTTTGAGGGACAGCCCCCAAGGGCCAGGTAGCCTTCAGGGGGGGGCA GGGTGGGGGAGGTAGGAGACTCTGGACCGGAGCCCTGGCTCCAGCTTCATCATCTGTGTCTCTT CATCATCTGTGTCTTC
TIGR- A005D17 c	81 T C	---	---	TATGGACTGTGTAGAAATATGATTTGGACAAGAGGGTATGATCTAATAGTAATAGACTGAGAGGGG AAACCCAGCAAGGCTCTGTCTAGATCTCTTGGCCTCTCTGTGAGGATTCCTTCTTCTGGGCAC GGGTGGGACCCCTCTCTGGAATGGGTATCTTACGACAGTCAAACTCTTACGACAGTCAAAAC
TIGR- A005D17 b	79 G C	GGGAAACCC AGCAAG	GAGAGGCCAA GAAGAATCTAG AC	TATGGACTGTGTAGAAATATGATTTGGACAAGAGGGTATGATCTAATAGTAATAGACTGAGAGGGG AAACCCAGCAAGGCTCTGTCTAGATCTCTTGGCCTCTCTGTGAGGATTCCTTCTTCTGGGCAC GGGTGGGACCCCTCTCTGGAATGGGTATCTTACGACAGTCAAACTCTTACGACAGTCAAAAC
TIGR- A005D44	97 G T	TTAACATTATT GAACCTAAAA CTGTACAC	TTGTCTATTAT TTAAAGCCAAAC AAAA	CATCAGTAACATATACACAAATGGTCACTCAACTGAACCTTGGCCTCCAATATATTTCTATACAATACTT AACATTATTGAACCTTAAACCTGTACACTG/TJTTTGGCTTTAAATAATAGACAATGATTTTGG TCTATTACTTAGTGATAGACAAAGTATTACTTTGTAGACAAAGTGATTACTTTGTTAC
TIGR- A005E31b	27 G A	---	---	GGAGTTCAAAATTTATAACCAGGCCCTCTG/AJCTCACAGCTGTACTGGTAGGCAAAAGCTTTCCAGAC ACAAAGCCACCTGCCCTGCCATGTGGATAGTACTCTTTGCCTGCTTGCCCTACAAAGCCACCTTCTAT TTCATACCAATACCTTCTATTTACATACCAATAAG
TIGR- A005E39	182 G C	---	---	CTCAGTGTAACAACTTTGTTAGGGAAAAAATAATCCAATGGATATATGGGAAGAGAAGTG CCAGGCTGGATGGTGTGAGACAGAAATGACCCCTGGGCTCCTTTATTTGTTCTTTCAACAGGACC CCACAGATAATTTGCGGTATGTCATGAGGACTGGGATGCTCTTCTATTG/GC/GGATGCTTCTATTTT
TIGR- A005E42a	42 A G	AGTAAGGTTA CTGCACCTTAC AGAG	CCTAAATCAGG GGAAATTGAG	GCTGAGTTTGTATCTTAGTAAGGTACTGCACCTTACAGAGJ/GJCTCAATTTCCCTGATTAGGA AGGCGATGCTAATGGGTATTGCATAGGTAGTAAAGTATAAAATGTTGTAATTAAGAGAAATCCCAACAG CTTGGTATAAGGCAGAAAAATAATGGTATAAGGCAGAAAAATAATAG
TIGR- A005E46	76 A G	CACCTGACTCG GTGCTTTAC	CCCTGGCTGTG AGGTAATGT	ATGACAATGATGATAGTATTAGCCTACCGTTTGTAAAGCACCTACTGCGTATCAGGCACCTGACTCGG TGCTTTACJ/GJACATTACCTCACAGCCAGGTTGGCAATGGTCAATTTTGACAAATGGTCAATTTTG ACAC
U20979	24 C T A	GCAGGGGTGA CGTATGTAGA	GGGGAGGACAC CCTAAGC	AGAGCAGGGGTGACGTATGTAGAAJ/GJGCTTAGGGTGTCTCCCAACAGAGCAGATACTTGAACCG ACTCAATTCCTGTGTAAAGAGCACCTTTGTCTGCTTACGGACCTCCCCAAAGTGTGCAGAGTTCTAT ATAGGATGCTGGATTAGTTCTTTGATATTGTAAAAATTTCCCCCAAGAGCCGCATATGAATCTGCC

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X57830	106	G C C T	AGTGAACCA ACGATCATAT	CATTGACAGAA TAAATGAGGC A	GTGGCAACTGTGGAAGGCACACTGAGCAAGTTTTCACCTATCTGGAACCAATATGAGATTGGA AAAAATTAGACAAGTCTAGTGGAAACCAACGATCATATCTG/CJATGCCTCATTTTATCTGTCAAT GAAAGCGGGGTTCAATGCTACAAAATGTGTGCTTGGAAAATGTTCTGACAGCATTTACGCTGTGAG CTTC
X74070b	72	T G TGGATC	CTTTTAAAGAA ATTTTGTTTA	GGGCTTAAAAA TATTAGAGATC TAGATTT	AACCTGAAGAAGTTACTGGGAGCTGCTATTTATATTATGACTGCTTTTAAAGAAATTTTGTATG GATC/TG/GATAAATCTAGATCTCTAATATTTTAAAGCCCAAGCCCCCTTGGACACTGCAGCTCTTT CAGTTTTCCTTATACACAATTCATTTTCAGCTAATTAAGCCGAAGAAGCCTGGGAATCAAGTTT GAA
Z48804	44	C T ---	---	---	ACTGCCGAAGTGTAGCGGCCCAACCTTGCTCTCATCACAG/CJTTAGAGCTTCTCCCGAAGGG CCTTAGGATAGGAGAAAGGTTTCATGCACACACGTGTGAGAAATGGAAGAGCCCCCTCCAGACCACT CTACAGCTGCTAGCCTTAGTTGCCACTAGGAAGTTTCTGAGGCTGGCTGTAAGTAAGTGTAAAGG TCCA
D28513b	133	A G ---	---	---	ATGACCAAGCCACCACATTTAGAACITTTGGCTGCCTTTGGAAGTCCAGAGCTGGATCTCTCAGCTCC CGCCCCAGAGGGTCAAGCACTTTGGACATGGCTCACAAGCAGTTTTTATTGACTGCATGAATGC/A GJTGCGTGAAGCATGAACCTTGTAAATCAAGAGGCTTACATAATTTTAAACCAGTTCTGTCTTC AGCTGTACATA
D29833b	85	A G ---	---	---	CCACTCCATCCTGATGCCCAAGTTATCCACAGCCTCCTTCCCGAACCAAGACCCCTATCCACCTGGACC TCCATTTTCCCTGTAA/GJTTCTCCAAGTATCCTACCTCCCTACTCCTGCACCCCAATATGAA CAACTGCAGCAGGTGCCACCAACCAACCAAGACACCACTACCCCTTGTAACACTGCTTCTGCTAC
D29833a	21	A G ---	---	---	CCACTCCATCCTGATGCCCAAG/GJTTATCCACAGCCTCCTTCCCGAACCAAGACCCCTATCCACCTGG ACCTCCATTTTCCCTGTAAATCTCCAAGTATCCTACCTCCCTACTCCTGCACCCCAATATGAA CAACTGCAGCAGGTGCCACCAACCAACCAAGACACCACTACCCCTTGTAACACTGCTTCTGCTAC
D31762	82	G A ---	---	---	CTCCCTGCCCTCCTCCTTCCCTGCTGATGCTCCGTCCTCAACAGCCGAACCTGCTTGCATGGGGG GAGGGGGCGTTTCG/AJCTTTCCCTTCTTGGCTTCCCTTATTTCTCCACAAACCATTTCTCAATAAA GCCAAAATCTTCTCTTCTCCCTCAGGCCACCTCCTGTCTCACTCCTGTCTGTGCTGGCTTTT CTGGA
D37931	64	T C ---	---	---	ATTATCGCGAGTGGTTGACCTTACACTTACTCCTTAAATAGCAGTGAGTAATGCATTTGAGCTG/T/CJ CCCAGGCTCTGTCTCCTCAGCTCATTTCCCTACTCTTTTCTCTATATAACTCATTTCTATTAATACAT GCACCAAGAGATATGGAGACATAAACCTGTAATGAATGAGGCTGGCTTTTCTGTAAATAAGCTTCC TTT

D63807	101 C T ---			CAGCAGGACTTCAGTGTGATCCCTGCCCTTCAGTCTCTTTAGAAATCACATCTGTTCAATCC ATTGTTTAGAGGGAGTGATTTTTCTCTGTTCCA[C/T]GAAGAGGACTTTTGTTCACAATTTGGATCAG AATGCAGAGGAGTCTGTTCCCTCCCGCTCGGCTTCTCGGTGCTGGAGGGTGACCTGTCCAGATGAC
D90145	21 T C ---			TGGGAACATGCGTGTGACCTC[T/C]ACAGCTACCTCTTCTATGGACTGGTTATTGCCAAACAGCCACA CTGTGGGACTCTTCTTAACCTAAATTTTAAATTTATTTATCTATTTAGTTTTTATAATTTATTTTGAT TTCACAGTGTGTTGTGATTGTTTGTCTGTGAGAGTTCCTCCCTGTCCCTCCACCTTCCCTCACAGTGTG TCTGGTG
EST14035 1a	59 T C ---			ATTATCACTCTCAAAAATTTTGGTGTGTGTTTAAGTACTTCTTATTATGAGCCCC[T/C]GAGGA CCAGACATGTTATTATCAAGCCCCATTATACCATCTAAT
EST16668 5	71 C T ---			GCATTTTAAAATTCACATTTGAATCATTATTTACTATTTATGATGTTTACATAACAATTCAGTATCAT ATG[C/T]GTAGATTTTCAGATGTAGGTCGTCAATACTGAGCACTTATCT
EST16904 7	57 C T ---			ACAGACTATCGCCAACTTATAATGCTTAAACTTTATGATCAATAGTAATAAATACAC[C/T]GAGATA TTCACACTTTATTATAAATAGGGTTGTGTAAGATGATTTTCCCAACTGTAGGTTAACAT
EST21863 9	49 A G ---			TTTTTAAGTACCAGAGGCACTGCTGGAACAGGATGAAAACTGATACACC[A/G]GTTACTACTTACTC TTCACCTCTCAAACTGATTTCCCTAAAGACTTCTACTTAGCAAA
EST21885 6	80 G A ---			GGCTGTAAGTAGAATCAAAAGGTTAAGAACAATTTTATGCACCTTATTCACAAAACATTTACTGAGCATA CTAGGTGCTGGG[A/G]TGTGACAGTGAGCAAAAAACACAA
EST22623 8a	26 A G ---			ATTTAGTGCAAAATGACAAAGCCCAA[A/G]AGAACAGAGGATCAAAATAGATTGAAATGTATTACC TTCTCATAAGTATACGAAGTTTAAACACAAGTATGGGAGT
EST22644 2	98 A G ---			AAAATGATTGAATTCAGCAAGTACATTTATGATCTATCTACATTTTAAAAACAGCACTAAAAATAA AAATTTTAAAATGATTATCCATTATTTACAG[A/G]AAATGTGGAAAAAGATGGCTTTTAAACCC
EST23587 1	31 T A ---			CCTCATTTATTTAAAAAGACGGACATAAAAA[T/A]TATACAACAAAAAACCCCAAGTCACATTTTCAG GAGTAAAAACTAAAAAGTCTGATATGAAAATATGGTGG
EST24246 7	106 T C ---			AAAGATCTGGCAATTATTCACATCATCTAAATATTTTGTAAATTTTCTCAACTT[A/G]CATTTAAAAATGTATCAAT TGTCCAAGCATTTTAACTATCATTTTAGCGTAAATACC[T/C]GAATAACCCCATAGTTACAGAAATGG GTCTGTGTAACCTCAAT
EST24308 3	45 A G ---			TAGTTTAAATTTCTGAACCTTTGGCTTATAAAATTTTCTCAACTT[A/G]CATTTAAAAATGTATCAAT GCACCTTCTCAGTAGTACCACATGAAAATATAAACCTCGTTC
EST24435 6	73 G A ---			CTTGAACCTCTGGTCTCAAGTGGTACGTCGCTCAACCTCCCAAAATGATGCGATTACAGGCATAAG CAGCC[G/A]TGCCCTGACCCACATTTCTTTATCCGATCTGTGATGGACATTCAGGTGTGTTTC
EST25089 6	25 T C ---			TATTGTGCATTATCAAAAATGGTTA[T/C]AGTTTTCAATTAACCTGTAATGATTCTTCTATGTATAAA ACAGCTTTGAAGTTGTAATGATAGTTTCCCAATCGTTAGTTAATGCTACATT



EST25476 9	33 G A ---	---	AATGATCTTTATTTTCAGACCTGCTCCTAAAA[G/A]CTTTCTCCTCCTAAAAACCAACACACA AGAGGTCTCTTGCTGCCTTTCCATGGACTGTGGCGGCTGTGGACTTGGACCGTCTGCTGA
EST26183 2	70 T A ---	---	AGATAATGCATTAGAGCCTGCCCTCAATTGTATCTTGATTAACTTTGTAAAGATTGATCTCTAAATAAG ATT/AJACATTCTGGGTACTGGGAGTTAGAACAAC
EST27231 1a	28 T C ---	---	AGAAAAAAGGTGCTACCAGAACTCATGT[C]GATAGCGCTTTCTTTTAGGCACATATTATAGCATT CAGATGAAAGTTCTGTAAATCACACACACTGTGCCTCTAACAAACACCGGTGACTCTGA
EST27816 5a	26 T C ---	---	CAACTCAAGGTACAAGACAATTGCATT[C]TAACATTGTTTATAAATAAAAGGAACATCAGATCAAT CATTAGGGCTCCAGAGTGAACAGCATCTTCATAACTTCCATGTT
EST28588 0	78 A T ---	---	GTTTAATTGGCGTATGGTCCACAGGCTGTACAGAAAGCATGATGGCTCTGGGAGGTCTCAGGAA ACTTACAATCA[J]VGGTAGAAGGCCAAAAGAGAGCAGGCATCTCTTCCATGACCACAGCAGGAGG AACAGACAGAGGAGGGGGAT
EST30226 5	25 A C ---	---	TACTCACACCGACATACATATCTCA[J]CJGTAGAATTAGCTATACTGCATACTAACTTCATTGTAGT AGGGAATATAAACTACTGAACAAGACAGACTTGTCTAACTTAAACAAGACAGACTCAATTCCTTTGA G
EST30935 9a	59 C G ---	---	AGCTATGGTAGAGCAAAATCCAGTGGTGTAAATCAAGAACTCTAAAGTTCAGTAGAGA[C]GJAGGT GTTTTGAATGTCAAGGAAATCACTGAGGTAGATTTGGGATTACAATAAGACAGCTGCCCTGTGAGGT CATAAGAGCTTTTGTGAGG
EST32515 7	25 G A ---	---	CCGAATATAAGGAAAAAATGGTGG[C]A]JGCCTCTAAAAACCTGTTGAATAGAATAATGGCCAAAT ATTACAGTTTCTCACTTCTCTATGAATACTGGCAGCTGTTTATTCATGTTTATGTGAGTTTCTATGC ATAAAAAATCCCAGTAAGA
EST33274 4	27 T C ---	---	TGCTTTGTTCCCTCCAAATCCTAAAAT[C]GTGTGTCTTCAAGAATAATTCGTGGAAGGACTTTGAA TACGAGTTGTACCATAATCAAGTATTCTTGAATACAGGTTTCAGATAACTATGGAGATGATACCATTT GGACTAGGTA
EST33352 7b	75 C G ---	---	TACACATTATCAAGAGACCCCTGACATGCATCTCCTCCGCAGAAATACATTCGTCTCTCTTAGAGA AGTTTAA[C]GJGCACATAGTATTATTTACTAAGAGAATATCTCTTGGTGCATATCTAGGGG
EST33424 1	126 A C ---	---	ATTTTCCCACAGCAGAGATATTATTGTGCTGAAATCAGGTAGCAGGGAATGAATAGCTCTTGG GAACCAGTACAGAAATGTTCCACAAAGATTTACAAATCTCAGTCATTACACACTGAGCAAC[A/C]AAA CAAGGTGTTGAATCCTCTT
EST33488 7	90 A G ---	---	CCTTTGGGGAGTTTTAAGCCAGAATGTGACAAAAGTCACCTACAGGAAGACTGGAATGTAGCCCATAG TTGAACCTAACATCGTCTATAG[J]GJACCAATTTCCCGTCTCCAGTTAGGTTCTAGGCATACTAAGCT GCTC
EST33508 1b	45 C T ---	---	AAAAACATGCTATTTGAACAAAACTTTTTATAAAGAATAAGTTGA[C]JT]GAAAAAGCAGTTTTTAAAT AACATCAACTCACAATGACTTTTAGAAGCCAAATAA



EST33508 1a	36 A G ---	---	AAAAACATGCTATTTGAACAAACCTTTTTTATAAAGA[A/G]TAAGTTGACTGAAAAAGCAGTTTTTAAAT AACATCAACTCACAATGACTTTTAGAAGCCAAATAA
EST33863 4	77 C T ---	---	ACAACATAGGACTGGTTATCTTGGTTTTGAAAAATATGTGGCCACTTCCTATTGTTTTAAAAATGA TCATTTAA[C/T]CTTTGAACTACAGCCTGAATCCCCC
EST34739 3	97 T A ---	---	GAAGTATCCTCCAGTGGCAGGAAGTGAAGACTCCAGATCAACAGGTGGACCTTTTCGTTGATGA GCTGATAGCTTCTAGGCTGTGGGAAACCTC[T/A]GGTGCCTTACAACCTCCAACCTACTGCAGAAATTTCT TGTTGTGCCTCATAAACA
EST34792 6b	104 A G ---	---	ACCTGACTGCTTTAAAGCTCTTTGTAAGCTGACCGTAGCACAGATCACGTGGCATCCACTATCAATA CTCATAAGTCTAATTTATCCTCAGGATGTTCCCTGA[A/G]GTATTCAGGAATCTTAGTCCTATTACA AAGATTTGTTGCTGTG
EST34835 9b	93 T G ---	---	GGAAATGTTCCCTTTGCAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG TGGGAGTCTATGTTGTGCTTTCTGG[T/G]GGCCTTAAAGAAACAGACAAAATTTGTGCTAAAGAT
EST34835 9a	82 G A ---	---	GGAAATGTTCCCTTTGCAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG TGGGGAGTCTATG[T/G]ATGCTTTCTGGTGGCCTTAAAGAAACAGACAAAATTTGTGCTAAAGAT
EST35230 0	93 G T ---	---	CACAAAGGTCCACTTTACTTACATGAAGGAACATAAAGGCATGAGAAACAGTCATCTCAATAAATG CAAGACATGAGCATAAAGAGGTTCTC[G/T]GCCCTTCCAGCGTTGTTATTACAGAGAGAAACCT
EST35337 9	33 C T ---	---	TCCTTTCAAAATTTTGTATGTAGGCATTTAATG[C/T]ATAAAATTCCTGCTTAGGAATGTATCTGCT ATATCTCAGAAGTTTGGGCATGTTGTTCCATTTTACTTAGTTGAGAACTTTTTCATTTTCATCT
EST35708 9	32 C T ---	---	CTGCCCCAAATTAACCTTTAGGCAATGGAAA[C/T]AGACTTACTGTATGGGACATTTTAAAAAG ACAGCTTAGTAATATGTTTCATATGCAGCGTGTGCTTCCCTCTCTGAGGTGGCACCTTTTCTGTTGTG ATGTGCAAAAGTGTGGCT
EST35747 9	51 C G ---	---	ATCCAGTGCAGAGTTGTAGCTGGAGACATATTTCAACCCACAAAGGCTCCA[C/G]ATGTTAAAAAGT TTCCCAACATCAACCTAATACAGTGACAGCAACACCTCCCTCCTGCCCTTCCAGTAGGGTTGAGATT G
EST35751 9	89 C A ---	---	TGGTCCATTATATTAACCTGAGGGAACAACGGTGTGCTGACATGGCAGACATTTATTTCATGAGGA AGTTCCTCCCATGAAACCAAGA[C/A]CTTGCTCCTCATGATAAAGTGGAGACAATAAGAAAGCCAGGT ATATAATTAAGGCCTGTGA
EST36301 4	93 C T ---	---	CACCTGTTTCATTGGTTCAGTGGGCTGCTATCTGTGGGCTGATGCTCTACCAAGTGTCCAGCCTACAGC AGTCAGGAGGCAGCCATGGCCCCCTG[C/T]GCTGATGGAGCTTGTAAATTTAGCCCCAAACTGATCTTCA GAAAGAGGTACAACAAA
EST36519 0a	33 G T ---	---	GCCATCAGCCCCACAAGACATGACTACCAACGC[G/T]GGCCCCCTTGACCCCCATACTGGCCCTCAGCAC CTAAGACTGGACAACCTTTGTACCTAATGACCGCCCCACCTGGCATATACTGGCTGGGCTCTTCTCTGT CACAGGGGCTTAGTGTG

EST36820 6	50 G A ---	---	GAC TTATTAGATAAGGGGTTTCGGCTACCCCTCAAAGCTCTCAGGACTGG[A]GCTAGGGTTTAAGG AAGGCTTATTTAAATATGGGAAATAAAATACAAAAGGGCCACACCCGATGCAAAAGACTTT
EST36890 0a	89 C G ---	---	CCTGTGATGTGCATGGGTGCCTGAGCAGTCGTACTTACTATGCGTCAGACAGCTCACGTATGTCAGGA AAGGAAGTCTGGGGATTCCTA[C]GJAGGGGGACATATCACACATATTTCTAAGTCACTGTGTGACTCGG CTTGAGCAAGTCATTCA
EST36729 9	62 C T ---	---	GAGACAGAAAGCCATCAGTTAAATGAGTTAGGCCTCTCCTCTTAATACTGATTGACAATG[C]TJA TATTAGCCAGGTAATGCACITTAGCTACCTCGACAATGCTATCAAGTGTCTGGGAAGGGAG
EST36823 6	103 A T ---	---	ACTGTCTGGGCGATGATTGGAGCTTGAAAAAACTAACATGCCAGATCTCCACCCAGACCAATTAG GTCAGTATCTCTGGGGGTGCTATTCAAGCAACAAT[AV]JCTTTTATGTTCTTAAGTCACTCATGAG TTAA
EST36987 4	126 C G ---	---	ATGATCGCTTATGTAATTTGAGGGCGACATGGGTAATGGGAGATACCCACAGGACCTGTAAATATT TAAATAATATTTAACAGCTGATCAGAGGCTAAATTACAACCTGACATTTTGATGCAGTT[C]GJGTTA GGGAATTAAGACAATGCAG
EST37054 3	88 T C ---	---	GGTCTCACTCTCTGCCAGGACGGTTTGAAACTCCTGAGCTCAAGTGACCCCTCCACCTTGGCTTCC GAAAGTGCTAGGATTACAGG[T/C]GTGAGCCACACACCTGGTCTTGGTTTAAAGTAACCACTGAA C
EST37269 3b	105 T G ---	---	AATAGTCTATGGCTACGGGCCGTTGGGATGTTAAAAATTGGGATTTTAAATTAAGATTGTGAACATG CAAAACCCAGCAATTTCTCAGCTTATATTTTGAAGTCT[G/C]AGGAGAAAAAATGGGGTCC
EST37284 2	93 G T ---	---	AAAAGACCTTCTCAAGCAGTAACTTTGAGCAGAGACTCAGATGAAGTAAGGGATGAACCCAGGAA GCTCTCTGGATAATGTCACCTCTAGGAA[G/T]AGTAAACAGGTGTAAAAACCCTGAGATAGCAACCCT CTTGGCTTGCTTGAGGAATA
EST37315 2a	90 A G ---	---	AGATGGGCTCTGCTAGCTTGCTCGGGCTGAACATAAGATATCCTCTGCCTCAGCCTCCAGGTAGT TGGAACCTATAGTAGGAGTATCT[AV]JCCCTGCCCTGCTAGAACCTTCAAGTTTGTATGGGCAAAATCCA CCCCAGAGGACAGGACAA
EST37374 1	45 C T ---	---	CCTGCCATGATAATGTTAAACATATCAAGATCCTCCTCAAACCTT[C/T]AAGGGTGAAGCATACC ATTCCATTTAGTTGAAATATTCCTTCACATAGCCCAACACATTTTTCAGGCACTCTAGCTACTACA GGA
EST37376 8b	101 G C ---	---	GTGACATCATGCTCTTCAATGCCCTTCAATTAAATAGTAGTTGAGCGCTGGGGGCTGAAGTCAGACT CTCTGGGTTCAAATCACAGTGTCTGTCTGCA[G/C]GCTGTCTCCTCAGGCAAGTTGCTGACTTCTCTG TGTCACGG
EST37376 8a	41 T C ---	---	GTGACATCATGCTCTTCAATGCCCTTCAATTAAATAGTAGT[C/T]GAGCGCTGGGGGCTGAAGTCAG ACTCTCTGGGTTCAAATCACAGTGTCTGTCTGCTGAGGCTGCTCCTCAGGCAAGTTGCTGACTTCTGT GTCCAGG

EST37378 9	63 T G ---	---	---	ACACACAAAAAATGGTGGCAGAAAAATCTGGAAAGATTCTAATAACCTCAATTCTCGTGAAAAACTT/G JAACATGCCTCAAAAAAGAGGGGAAAAAACTTTAACAGAAAAACACTGTGCTGACATGATTAGCTT
EST37452 4	46 G A ---	---	---	AAGACATAAATCTGCAATGAATCAGTTATGAATAATTAACCTCTTGAJCTTCTCAGGAGTGACAC TAATCATGGTCTGGAAGCTAGCCTATCGCATTTTAAACACCCCTTAAATCAATGACGTAGAA
EST37613 6	34 A G ---	---	---	CTAGGCATGGGGCTTTTACAGTCATTTATTTACCAGTGCATGAATTCATTAAAAACACACAGCGAT ATAGCAATGAGCAAAACAGACCCCTCCCAAAATCACCCCTGGTTCATGGATCTTCCATTCTAA
EST38025 4	56 T G ---	---	---	TTATTGAGTAGCTACACTGTGGCCAGAACTAAGCTTTACATGTTTTATATCACTTAJTGJTATCTCA ACAATCTTGAAAGGGTGGTATTATTTCCCGTCTTATAGGTGAAGACTCTGAGGTTTCAGAA
EST38068 6	57 C T ---	---	---	TCTACCAGGTCACCAAGTATCTGTATATGCTTTAAGTGGCATTTTCATGTCACTTAJCTJCGCATGG AAGAACGCTCTCCTTTTAAATCCCTAACTCTCTTCTCTGGGAAGACAGAACGTGCACAA
EST38420 6a	100 T C ---	---	---	TAAATCAAGGCCCTCTTTTCAATACCAAAACAAAAACAAAAAAGGGAACAAAAATACGATGGGAGAGG GAAGAGATGATGCCGAAGTGTCATCCTGACTGACTGAGTCTGTCCTGAGTGCAGTCCCATGGGTCCCGTGCCT TATTCATTCTCCTCTCTCA
EST38950 5	25 T C ---	---	---	TTTATTTGCAAAAGTAAGCAGCCGGTJCTJGGTCCCTGGATTGAGGCTGAGGAAGACATTACTTCCCTG CTGGAATACTTGGGACTTACATTTGACACAGGCTAAAGTATGGGATGAGAGAGGAACAAAAAGCTT ACAAACAAAGAGCAGCCA
EST39053 6	90 T C ---	---	---	TTTTTTGTTACTCTGTAGCCAGTCATTAATCTGAAGGTTTAAATATATCATTTTTATTGGGATGAGATCA TAGTCTTTACACAAATGCTATGTJCTJAAACAAGTTACTGAATATTTTTCACCTCGTGGAGTTG
EST39331 1	70 G C ---	---	---	TCCTTCTTGCTCTCTAGCACTCAGACCAACCAAGAAAGCCCTGGAAGACCAGCCCATGGAAGGAAAGTA TGCGJCTGTGTTTTAGGGAGAGCTGGCACCTGGCCTCTAATCTTCCCTCTGCCATTGCCAGATGGGT GCCTTTGGATACATCACT
EST40544 7	31 C A ---	---	---	GTCAACCATTGACCTTACATAGTGCCCTCTAGTCTAJACCTATGAGGCACCTAGAACCTCTATTGTACTTCT CACTTTATCACATTAGCTATCGAAGTTTGAAATTT
EST40548 4	37 T C ---	---	---	TTCTAATAGCATGCCCTGTGACAGGGAAACTAAGCTCTJCTCAAAATAACTGAAACTAAATCTGTGA AGATAAATGCTGGAATTTGAGAAGGCACATGCCCTTTGTAGTTTTCTCCAGAAAGGCTCAAGGTGTTC AATAATCTGTGGGACTCA
EST40549 1	42 A G ---	---	---	TGTTTCTCTAGAGAACCCTGTGTGATACACTACGCATGCACAAGJATAAAGTCACATCAAGACTAA TAATCTAAATGTTAGTTTGTACCACCATTTCTACATTTGAACCTAGCTCCCTGCAAGACACCTTCTA CCCTGCACITTTGGGGAG
EST40579 1	81 A C ---	---	---	TGTGAATTACACATCAGTAAGGCAGTTTACAGAATTTTACCTCTTACCTAAAGTCTGTGCTATCTG AGCTGGTGGAAA[AJ]GGACTTGGAGACAGCGATTAAATACGGAAACAGGCTTCCAGGGAAG
EST40584 3	68 A G ---	---	---	TTGTATGGTTGTAGGAATTTGGGAAGAAATTTATCTGTGAAGGAATTTGCCACTGTAAATGACACACC A[AJ]TCTGTACTCCCAATATCCTATGTTTTAAGCT

EST51340	51 GA ---	---	---	GATCAAACTGTATTGCCAGGCCAGCTCCTGAAGAACTGTGAACATGAAC[G/A]TCTCAGCCTAGA AGGATAATGTGACCTTCAATTTGCACACCATCCAATTGTCTCTTCAAACCTAAGAGCCTCTCTAAGCTA GATAGGCCAAGGATTATT
J04162	134 T C ---	---	---	CATGGGAGTAATAAGAGCAGTGGCAGCAGCATCTCTGAACATTTCTCTGGATTTGCAACCCCATCAT CCTCAGGCCCTCTCTACAAGCAGCAGGAAACATAGAACTCAGAGCCAGATCCTTTATCCAACCTCTCGA[ T/C]TTTTCTTGGTCTCCAGTGAAGGAAAGGCCCATGATCTTCAAGCAGGGAAGCCCCAGTGTAGT AGCTG
K01506	63 T C ---	---	---	CTGAACTCCAGTGCCTACAACTCCATCTCAGCTTTTCTCTCACTTCATGTGAAAACCTAC[T/C]C CAGTGGCTGACTGAATTGCTGACCTTCAAGCTCTGCTCTATCCATTACCTCAAGCAGTCATTCTCT TAGTAAAGTTTCCAACAATAGAAATTAATGACACTTTGGTAGCACTAATATGGAGATTATCCTTTTC ATTGAGCCTTTTATCCT
L18877	69 T C ---	---	---	TGAGTCTGAGCACGAGTTGCAGCCAGGCCAGTGGAGGGAGTCTGGGCCAGTGCACCTTCCAAGGCC CT/C]ATCCATTAGTTTCCACTGCCCTCGTGTGACATGAGGCCCATTTCTCACTCTTTGAAGAGAGCAG TCAGTATTGTTAGTAGTGAGTTCTGTTCTATTGGAAGTGTGAGATTACTTTGTTTCTCTGTTGGA ATTGTTCAAATGTT
L31848	36 T C ---	---	---	GCATTTTACATATCCCAAGCCCTTTAGGGCTACAGT/C]CTCTTGCTCGACCCCTGTAGGGTGCCA TTTGGAGTTCACAGCCTAGAAAGAAAGGCTTTGGCCCTGGTGTGGTGGCATAGGCCTGTAACTGCT AGCGCTTTGAGAGGCTGAGGCAGGAAGATAGCTTGAGCTCAGGAAGTTCGAGACAAACCTGGGCAAT GT
L38517	137 G C ---	---	---	GGGTCCAGAAGCCTCTCAGCCAGGAGGAGCTGGCCCTGGAAGGGAACCTGAGCTGGGGGACACTGGC TCTGCCCATCTCCTCTGCCATGAAGATACACCATTTGAGACTTGACTGGGCAACACCAAGCTCCCCCAC CC[G/C]GTGCTGGTGTAGTCATAGAGCTGCAAGCTGAGCTGGCGAGGGGATGTTGTTGACCCCTCT CTCCTAGAGACCTTGAG
L39059	123 T G ---	---	---	ACTTGAGAAGCAGAGCTCGCCACCTTCTGGAGGCCACTGTGATGATAGCCAAGCAATTTGGAGCCA AGTTGAAGGGACAGGGCAACAAATACAGTAGTAGTTCTTTTGTATTTGTATATTTGJCGCCTGA AGATCATCCCGCAAGCAGGCTGGAGGTGCCGTGGCCCTGTGTTGCTGGGATTTTAGTCTGTGCTGG GAG
41268d	173 GA ---	---	---	CAAAGTTGTCTCCTGCCCATGAGCACCAAGTCAGGCCCTTGAAGGGATCTTCTAGGGAGACAACAGC CCTGTCTCAAAACTGGTGGCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGCGGTGAGTCTGCAT CTTAGGGCATGCTCTTCTCCTCACACCACAAAATCTGAAAC[G/A]TGCCCTCTCCCTTGCTTACAAAATGTCT AAGGT

L48728b	111 T C ---	---	---	AAGTGAACAGAAAAGCAAGATGGATTGTTCCTATAAAAGCACATAGTTATGTTTACTGGTATCGT AAGAAGCTGGAAAGAGAGCTCAAGTTTTTGGTTTACTTTTCAGAA[T/C]GAAGAAGCTTATTCAGAAAG CAGAAAATAATCAATGAGCGATTTTAGCCCAATGCTCCAAAAGCTCATCCTGTACCTTGGAGATCCA GTC
M18079	52 G A ---	---	---	GGCACAGTCCAAAAATACAAATTGGACAGAAATCTATATTGTACCAGAACT[G/A]JTATTTTACACC CCATCAAGTATAAGGTTACTGATTGATTGGTCC TTTTATAAACATTGGTATATTTCCATTTCATGCCAA AGCAAAAGAAAGTAAAAGCTAA
M19169	113 T C ---	---	---	TAGGATCTGTGCCAGGCCATTGGCACCAGCCACCACCCCTGTAGTGTCCCAACCC TGGACTGGTGGCCCCCACCCTGCGGGAGGCCCTCCCATGTGCTG[T/C]GCCAAGAGACAGACAGAG AAGGCTGCAGGAGTCC TTTGTTGCTCAGCAGGGGGCTCGGCCCTCCCTCCCTTCTGCTTCTAATA GC
M21539	114 T G ---	---	---	TCACCTCGTTCACAGCTCCACCTGCATCTTCTCATCAAAAGCCATCCAGGGATACACAGGGAGCTTCT TTCCCTTAGCCTGTGATCTGCCCATGATATCCCCGACAGCAAA[T/G]GTTTCCCTTCTGAGGCTG CCATGCTGCCACTGTCCAGGTGGAGACTGAGCAAGGAAGTCTCAGCTGTACCGGGCTTTCAGAGCT TCTCTTTGGGTGC
M26041c	173 A G ---	---	---	CTTAGCATTATTTCTGGCCCCAATTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCACCTCT TCTGTGGGACTTAAATTGCTATATCTGCTCAGAGCTCACAATGCCCTTGAATTATTTCCCTGACTTC CTGATTTTCTTTCTCAAGTGTTACCTACTAAG[T/G]GATGCCTGGAGTAAGCCACCAGCTACC TAATCCTCAGTAA
M26041b	157 A G ---	---	---	CTTAGCATTATTTCTGGCCCCAATTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCACCTCT TCTGTGGGACTTAAATTGCTATATCTGCTCAGAGCTCACAATGCCCTTGAATTATTTCCCTGACTTC CTGATTTTCTTTCTCA[T/G]GTTACCTACTAAGAGATGCCTGGAGTAAGCCACCAGCTACC TAATCCTCAGTAA
M26041a	45 C G ---	---	---	CCTAGCATTATTTCTGGCCCCAATTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCCTCACC TCTTCTGTGGGACTTAAATTGCTATATCTGCTCAGAGCTCACAATGCCCTTGAATTATTTCCCTGAC TTCCTGATTTTCTTTCTCAAGTGTTACCTACTAAGAGATGCCTGGAGTAAGCCACCAGCTACC TAATCCTCAGTAA
M63967	57 G C ---	---	---	TAAGGAGCTGTACAGGGGCCCCAGTCACAGTCCAGCAATTCCACAACCACCTTGAC[G/C]AATGCT TGCCAAAGCTGTTTTAAAGCCAAAGAACACCCCTTTCTTTGTTCCAAATTAACCTTTAGAAGAAACCCCA CAATAAAGCAATTCAATC
M81695	34 G A ---	---	---	ACTTACTTACCCTACCTGTACGGCTGACGGGGA[G/A]GAACCACTGCACCACCGAGAGGGCTGGG ATGGGCTGCTTCTGCTTTGGAGAAAACGCTTGTGCTGGGAAGGGCCCTTGTCTGTCAAGGTTCT CAACTGGAAACCCCTTAGGACAGGGTCCCTGCTGTGTTTCCCAAAAGGACTTGACTTGCATTTCTACC T

U06641d	166 C T ---	---	CTCCTCCTTTATTTCAGCATGGAGGGTTAAATGGAGGATCCTCTTTCCCTGTGACAAAACATCTTTC ACAACTTACCTTGTTAAGACAAATTTAAAAAGATCTTTTACAACTTACCTTGTTAAGACAAAAT TATTTCCAGGCTATTTAATACGTACTTTAG[C/T]TGGAAATTAATCTATGTCAATGATTTTTAAGCTA TGAAAATACAATGGGGGA
U09607	39 T C ---	---	GAGGCTTATGAGGGTCTCTACTTCAGGAACACCCCA[T/C]GACATTGCATTTGGGGGGCTCCCG TGGCTGTAGAATAGCCTGTGGCCTTTGCAATTTGTTAAGGTTCAAGACAGATGGGCATATGTGTGAG TGGGGCTCTCTGAGTCTTGCCCAAGGAAGCAAGGAACCAAAATTTAAGACTCTCGCATCTTCCCAAC CCCTTA
U09608	82 T C ---	---	GAGCAGAAGGCAAGAGCGGCAAGATGAGTTTGAGCGTTGTATTCAAAAGGCCATCTGGAGCCTC GGAAAGTCTGGTC[T/C]ACATCTGCCCGCCCTTCCAGCCCTTCCCCAGCCCTCTCTTGTCTTC ATTCATTCAACAAAATTTGGC
U10694	20 C G ---	---	GTGACATGAGGCCCATCTT[C/G]CTCTGTGTTGAAGAGAGCAATCAGTGTCTCAGTGGCAGTGG GTGGAAGTGAGCACACTGTATGTCATCTCTGGTCCCTTGTCTATGGTGATTTGGAGATTTATCCTT GCTCCCTTTTGGAAATGTTCAAATGTTCTTTTAATGGTCAGTTTAATGAACCTCACCATCGAAGTTAA TGAATGACAGTA
U13877b	162 T C ---	---	AAAAAGGACTCTGGTTCAAATCCAGTTCATTTTGCTATCTTTGTGACCTTGCACAAGTTGTTTAAAC CTCTTTGTTCAAGAAATTTCTCCATGGAGTAACAATATCTAGGTGGGAGGATTAGTGAAGTTACATGT AAAGCACAGAGGAACAGCCAAAGAGAT[T/C]TACCCTGGTCTTACTAAAGTACATATCTTAACCTTGG GGTTACCTTCAGCA
U15555	187 T C ---	---	TTTCTGTCCACTTTCACCTGGTTTTAATAGCCAGCCAGTCATAATAGTAGAGGAATCAGTCAAGCAA AAATGCTTTGGAAGAATTAAATAAGCAATGCTGAACATCAGGAATTGTAGATATCCGTACAGAGAGT TCCAGTAAATTTTATGAGTCCACGACCCCTTTTCTAAGCAGTCTGGTCCATG[T/C]TGGTCTCATAC CTCATATGCAGGATTTCATTCA
U17077	122 T C ---	---	TCCAAATTATTGGTCCCCAAAAGCAGCTTCCAACGTTTGCCATCTGGATGACAAAACGGAAGATCCACT AAAACGTCCACGGGATTAAACAGAACGTCCTTGACAGACTGAGCATGACACACAC[T/C]TTGTTTGG ACATTTAAATTCACTCTGCTGAATAGGAGGAAGCTTTTCTTTTCCCTGGGAAAACAACTGTCTCTTGG AATTA
U18543	58 T C ---	---	GCACATGCAGAATAGACTCAGCCTATGTCCTGATTCCAGCTGGGTAGTTCTAGAACTT[T/C]AGAAG CTCCATCTTTTAAATGTTTTTATTGTTATGTCCTCCCTCCCGGCTCCACCTAAATTTAGAGCTTTAAA AGATGCACTGCCCAAATAGGACACACGATGGTGTAGCTGAAGTTTATTAGCAATTAGGCACTTCC AAGGCTTTAGTAGAGAGAGCC

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U25975b	164 C A ---	---	TCACGTCTGGCCTCATACTCTTTTCCATTTTCTACAAGAAGCCTTTTAGTATATGAAAATTATT ACTCTTTTGGGGTTAAAGAAATGGTCTGCATAACCTGAATGAAAGAACCAATGACTATTCTCTG AAGACAAACCAAGAGAAAAATTGCAAAAAGAC[A/A]AAGTATGACTTTTATATGAACCCCTTCTTTAGG GTCCAGAAGGAATTGTGGACTGA
U25975a	143 C G ---	---	TCACGTCTGGCCTCATACTCTTTTCCATTTTCTACAAGAAGCCTTTTAGTATATGAAAATTATT ACTCTTTTGGGGTTAAAGAAATGGTCTGCATAACCTGAATGAAAGAACCAATGACTATTCTCTG AAGACAAAC[C/G]AAGAGAAAAATTGCAAAAAGACAAAGTATGACTTTTATATGAACCCCTTCTTTAGG GTCCAGAAGGAATTGTGGACTGA
U25997	61 A G ---	---	CAGGGAGAGGTTATTACAAACCTCACCAAACTAGTATCATTTTAGGGTGTGACACACCA[A/G]TT TTGAGTGTACTGTGCCTGGTTGATTTTTTAAAGTAGTTCTCTATTTCTATCCCTTAAAGAAAAATT GCATGAAACTAGGCTTCTGTATCAATATCCCAACATCTGCAATGGCAGCATTCOCACCAACAAAA TOC
U28413	29 C T ---	---	ATTCTGACAGCTAAATTAGCCCTAAATG[C/T]GGGTAATATTTTCTCTCATGTTTTAAATGAGGTT AATATTTGCATAAAATCCTAAACAGACTTCTGTATAGTTTATTTAGTCAAAATGTTCTTGTATCC CAGATGTTGTGGCCTGGGAAAGCCCTCATTTGCTACAGTACAAGTAACACAAGTCGTTGTACCTCAGTT G TAGGGGTAGCAATTAAGATTCAGGAGTCATTAGCAGTGATGATTTTGGACCTGCCGTATAATCTGTT CTTCTATTTCCACGTTAGCCA[A/G]TTGTTCTTGTATGAATCTATATGAGTCATAGAACACAAAATCTAT TGACGGAAAGTCATTAGAATGGCTTGTGATATCTGATGGCTTGAACCTTGCCACAGTTGAACACAAAGT GCTGTCA
U30884c	89 A G ---	---	TAGGGGTAGCAATTAAGATTCAGGAGTCATTAGC[A/G]GTGATGATTTTGGACCTGCCGTATAATCT GTTCTTCTATTTCCACGTTAGCCAAATTTCTTGTATGAATCTATATGAGTCATAGAACACAAAATCTAT TGACGGAAAGTCATTAGAATGGCTTGTGATATCTGATGGCTTGAACCTTGCCACAGTTGAACACAAAGT GCTGTCA
U30884a	34 A G ---	---	GGGACAGCATATGTGGCACCCTCTCTGTGCACGTGAAGACCAATGAGACGGCTGCAACCAAAACA GCCGTATCAAA[A/G]JCCCTCACTAAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA CCAGACCAAGACCCCTTTACAACGTAGAGGAGGAGGATGCCAGCGGATTTCGCTTTAGCCCGCC TGGTAGCCCTTCCAT
U31216b	78 A G ---	---	GGGACAGCATATGTGGCACCCTCTCTGTGCACGTGAAGACCAATGAGACGGCTGCAACCAAAACA GCC[G/A]TCATCAAGCCCTCACTAAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA CCAGCACCAAGACCCCTTTACAACGTAGAGGAGGAGGATGCCAGCGGATTTCGCTTTAGCCCGCC TGGTAGCCCTTCCAT
U31216a	70 G A ---	---	GGGACAGCATATGTGGCACCCTCTCTGTGCACGTGAAGACCAATGAGACGGCTGCAACCAAAACA GCC[G/A]TCATCAAGCCCTCACTAAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA CCAGCACCAAGACCCCTTTACAACGTAGAGGAGGAGGATGCCAGCGGATTTCGCTTTAGCCCGCC TGGTAGCCCTTCCAT

U31416c	76 G A ---	---	AGTTGCCAGCTCCCATGTACCAAGAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGCTC CTCCTCAC[G/A]CCACAAATCTGGTGCCTCTCTCTTGCTTACAAATGCTAGGTCCTCCCACTGCCTGCT GGAAGAAACACACTCCTTTGCTTAGCCACAGTCTCCATTTCACTTGACCCCTGCCACCTCTCC AACCTAACTGGCTTACTTCCT
U31416b	68 C T ---	---	AGTTGCCAGCTCCCATGTACCAAGAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGCTC [C/T]TCTCAGCCACAAATCTGGTGCCTCTCTCTTGCTTACAAATGCTAGGTCCTCCCACTGCCTGCTG GAAAGAAACACACTCCTTTGCTTAGCCACAGTCTCCATTTCACTTGACCCCTGCCACCTCTCCA ACCTAACTGGCTTACTTCCT
U37519a	78 C T ---	---	ACGGGTCACACAGAGAAACCTGAGCTAGCCATGAGGGGCTTATGCTCCCACTCACATTGTTCCCTCC AGACCGCAGG[C/T]TCCCCCAGCCTCAGTTGCTGGAGCTGCACATGACTGCATCCTGCTGCCAGG GCTGCAAAAGCAAGGCTTTGCTTCTATCTGGGGACGCTGCTCGAGAGAGGCCGAGAGGCCGCGAGAAC ATGCCAGGTGTCC
U37690	54 A G ---	---	GACCACGCTGAAACCCACCCACCCGCTGTGCTGACCATGGGCCCTGAGCGTCTTATGCCCCGAATTC ACGAGGCTGAGGCATCCGGAGCTGGCGTAATGCTGGCGCAGTGTGTGTATCCCATACCCCACT CTGGAAGGAACCATCCAGTAAAGGTCCTT
V00540	39 T C ---	---	TGAAACCGTTTCAACATGGAATGATCTGTATTGACTAA[T/C]ACACCACTCCACACTTCTATGACT TCTGCCATTTCAAAGACTCATTTCTCCTATAACCACCGCATGAGTTGAATCAAAATTTTCAGATCTTT TCAGGAGTGTAAAGGAACATCATGTTTACCTGTGCAGGCACTAGTCTTTACAGATGACCATGCTGAT A
X15943	106 A T ---	---	TCAAGAAGGTGACTGCCCTTGATGATGGGATGGGAAGATGAATGACTGGTTTTTACTGGGGTGTA AACCACTCTGAGCCTCTCTGAGACCATGTGGTTTTAAAA[T/AT]ATCCATAAGGGAAGGTACCCACAC CAGTATCTGAGTCCAGTAGCTAAGACCCCTAGAAATTTGGATTCTCTGTTTTTTCATGTCTCTCCTT GTAACCCCTGAGATCATCAG
X52011b	148 C T ---	---	AGGAAGATCCACCGACCCCTTCTGGCTAAATCCCTTAGATTAGGTCACATTACATTAACATTTAGGA ACCCAGACCGAAAAAGTTGCTGAAAGGGGAAGGAGACACATTACAAAAGAAAGTTGCGAAAAATTGCG AAATCTGTGTGCA[C/T]GCTCAAATGAAAACGCCCTTTCGGCTTTTATTTTTTGGAACTG CGAGTGGCTTAGGCTAGCCT
X52011a	118 A C ---	---	AGGAAGATCCACCGACCCCTTCTGGCTAAATCCCTTAGATTAGGTCACATTACATTAACATTTAGGA ACCCAGACCGAAAAAGTTGCTGAAAGGGGAAGGAGACACATTACAAAAGAA[A/C]GTTGCGAAAAATT GCGAAATCTGTTGTGCACGCTCAAATGAAAACGCCCTTTCGGCTTTTATTTTTTGGAACTG CGAGTGGCTTAGGCTAGCCT



X54741	24 A G ---	---	CAGGCCACCTGTTCTCTCCAC[G/G]TGACAGCTTCTGAGTCACCCCTCTGTCCAGCCAGCTCCT GCACAAATGGAACCTCCCGAGGCTCCAGGACTGGGGCTTGCAGGCTTGCAAAATAGCAAGGCCAG GGCAGCTGGAGACGATCTTGCTGGCAGGGCTGGCCTTGTCGCCAGCCCCACCTGGCCCCCTTCTCC AGCAAGCAGTGC
X54869	99 A G ---	---	AAGCATTTCGCGTTTACAGTGCATCAGATACATTTTATATTTCTAAATAGAAATATTATGATTCAT AAATCTGAAATGAATTTATTTGCTCT[G/G]ATACAAAAATCTAAATCAATATTGAAATAG GATGCACACAATTACTAAAGTACAGACATCTAGCATTTGTGCGGCTCATTTTGTCAACATGGTA GCCGTGCTCTGACACCTCCAGAACGAGGTGCTGGGCCCCGTTCTGCTGGACCCCCGGGAACCTCTC CTGCCGGAAGCGGAGCGGATGGGCCCCAACTTCGCCCTGCCACTTGACTTCACCAATCCCT TCCTGGAGACT[G/G]AACCTGGTCTCAGGAGCGAAGGACTGTGAACCTTGCGCTGAAGAGCCAGA GAAATGTGAAGAAATGTGACAAAGCCTTTAAGCGGTTGTACACTTGATTGTATATAAGATAAT[G/G]T CATACTGGAGAAAACTCCAGAAAGTGTGACAAATGTGACAAACATTTAATTAATCTCATACCTTA TTGCACAGGAAAGCAATTTATACTTGAGAAAAATTTGTATAAAGAAATGGAAGTCAATTAATATCTGCT CATATCTTAACATCAGCGAGTT
X66924	147 G A ---	---	CTCAACCCATAACCTCAACCCACATCT[G/G]ATCTCTCCACCCACATCCACACATCCACCTCCATCC CCAAACCCATCTCATCCCCAACTACAGCCCCAAACCCAGCCCCAGACTAATCCACAGCCATCCCCAA CTCATCTCATCCCCAACTGCAGCCCCAAACCCAAACCCAGGGCCATCCCCAAACCCATCCCCCAAGCC AAACTCAACACCATCC
X80026	25 T C ---	---	ACCCCAACTCAAGTCCAGGCCCCAGGCATCTTCTGCCCCTGCTTGGCCCCATCCAGTCCAGG CGCCTGGAGCAAGTGTCTAGTACTTCTCT[G/G]CAGCTTTGAAAGACCCCTCCCACTCCTGGCCTCA CATTTCTGTGTATCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG ACCCCAACTCAAGTCCAGGCCCCAGGC[G/G]CTTCTGCCCCTGCTTGGCCCCATCCAGTCC AGGCGCTGGAGCAAGTGTCTAGTACTTCTCTGCACTTTGAAAGACCCCTCCCACTCCTGGCCTCA CATTTCTGTGTATCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG GGCACCCAGAGTGACCAACAGTCCAGGAGGGGCGGCGCTCGCCGTGTCGGTGTCTTTT CAGCCCGGAGAGGTCTGACCTGGGGCTTCTCCAAGCCTCACTGGCCACGCTCCCCGCCGCTCT CTTTTCTCCCAAGC[G/G]AAACCAATGCGCCCCCTTACCTCGCGTGGCCGTCGAGGCGGGGGCTT CTTTCAGAGC
X80197a	28 A G ---	---	ACCCAGGCCATGGTCTAAGGACATGGATCGGGTGGCCCCAGACGTGTGCACAGGGGACCCCTCTGCC CACTCTGGGCTTTTCAGATACTCTGACCAAAAGCCTGCTTTAAACCGCAAGATGGGGCCT[G/G]GGG ATGCGCAGGAGGAGCCATCGGGTACTACGCAAGCAACACTCACAACTGTCCAGGCTGAGATAAATCCC GGGA
X80197b	99 G C ---	---	
X85106	150 G A ---	---	
X87160	128 T G ---	---	

[illegible]

1282	130 C T ---	---	GTGGATCACCACACAGTCTAATTCAGATGTTTCATTACCCCTAAAGAAATCTTGTACCCATTAGCAATTCCTCATTCTGCCCTCACCCCGAGCCCTACTCTTTATCGCTATAGATTTGCC[C/T]ACTTGACATATCATACACATGGAGCCATACATATGTGTGCCCTTCATGATTGGCTTCTTTCACCTGAGAAATAATGTTTCAAGGT
6810	68 C T ---	---	AGTATCACACATACATTAATATATTAGATATACACAATAATAAAATCACTCCCTACCTTGAAAACTTTA[C/T]JAGAAGCAATTTTAAATTTACAACACAAAAGCTCAAACGAACCTACAATAAGCTAGTAGTCTGTACGTGCCAAGGGATAAGGCTGAACAATAAATAACCCCTTAAAAATGCTATGAACAAGTACAAATTTCTTTTGAGTTCTGCAGAGCAATGACCACTAAGAAATATTTTAAAGGC
6817	118 A C ---	---	CCAAGTACATTGGGTGAACGATGAGCTAGTGTCTAGTATTGCTTTTGTAAATCCAGTTAAGACCA TCAGCATATACAACATCATCACTAACTCAACAATGTAGCTGCAGGGTAAC[A/C]TGTGGATACCCCTG TGTGCTCTACTGGCCTCCAAAGGCATTTCAGGGGATCATCAAGATGTTGGACACCTTGTGTTCAAATC TTGGTTCAGGTGCGGCTGTGCAGATCGGCTTTTGGTTGGTTGCTTAG
6819b	212 C ---	---	CCATTTATTTTCTCTAAATTTAAAATAGAAGACTTTAATGGAACCAATTTAGTACCATCATGTCA CCCTGAATGCCAGCAATACCTCGACTTTTACACACGAGGAAGCCTAGTAAAGCCCCGTCAGTAGT ACACATTTCTCTATGGTCTTCAACAGTTTTGCATATACAAAATTTTCTGCTATTTTGGCTTAGCAAAA CAGCAATAACTTTTGTGTTCTCTATATGACACCTAATATCCA
6819a	166 G T ---	---	CCATTTATTTTCTCTAAATTTAAAATAGAAGACTTTAATGGAACCAATTTAGTACCATCATGTCA CCCTGAATGCCAGCAATACCTCGACTTTTACACACGAGGAAGCCTAGTAAAGCCCCGTCAGTAGT ACACATTTCTCTATGGTCTTCAACAGTTTTT[G/T]CATATACAAAATTTTCTGCTATTTTGGCTTAGC AAACAGCAATAACTTTTGTGTTCTCTATATGACACCTAATATCCA
681xx	39 A G ---	---	CTGGTATGTCATAAGCAATCCATAATTGTTATAGCTATT[A/G]TTACTATGGCACCATTTGGGACA CAGATTATATATGTCAGACACCCAGCAATGTCCTTTAAGATATGCAGCAAGCACAAATCTGTCTATGGT TTAACAAAAGAAATGAACGCTAGG
6972b	149 G T ---	---	AGGATTCCTCTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCTCCTTGACCT CTGGTAGAATTCGGCTGTGAATCCATCTGGTCCCTGGACTCTTTTGGTTGGTAAACTATTGATTATG CACAAATTCAGA[G/T]CCTGTTATTGGTCTATTTCAGAGATTCAACTTCTCCTGGTTTAGTCTTGGGA GAGTGTATGTGTCGAGGAAT
6972a	122 A G ---	---	AGGATTCCTCTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCTCCTTGACCT CTGGTAGAATTCGGCTGTGAATCCATCTGGTCCCTGGACTCTTTTGGTTGGTAA[A/G]CTATTGATTA TTGCCACAAATTCAGAGCCTGTTATTGGTCTATTTCAGAGATTCAACTTCTCCTGGTTTAGTCTTGGGA GAGTGTATGTGTCGAGGAAT

7598k	210 A C ---	---	AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTTCCCT CAATGCAG[A/C]
7598j	208 A T ---	---	AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTTCCCT CAATGC[A/T]GA
7598i	192 G T ---	---	AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA
7598h	144 C T ---	---	AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGATCC[C/T]AATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA
7598g	142 C T ---	---	AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGAT[C/T]CCATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA
7598f	120 A G ---	---	AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTG[A/G]GATGCCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA
7598e	83 C T ---	---	AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAA[C/T]CAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA
7598d	77 C T ---	---	AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGC[C/T]GCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA

7598c	56 A G ---	---	AAAGGTAATCAAAGTCCCTCTATAAAATTATGATTTACAAAAGACACCCAAAGCCA[A/G]AGGAAC TCAATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAAATTAATTTCTTGAGGATGCCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7598b	47 C G ---	---	AAAGGTAATCAAAGTCCCTCTATAAAATTATGATTTACAAAAGACA[C/G]CCAAGCCAAAGGAAC TCAATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAAATTAATTTCTTGAGGATGCCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7598a	30 A G ---	---	AAAGGTAATCAAAGTCCCTCTATAAAATT[A/G]TGATTTACAAAAGACACCCAAAGCCAAAGGAAC TCAATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAAATTAATTTCTTGAGGATGCCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7998c	116 A T ---	---	GTGTTGATCTCACTGGGTGCTGCAGGCCGGAGCTGTTCCCTATTCAGACATCTTGCCAGCTCTCCTGTGA ATACCTTTAATGAATGGGTGATGCTCTATCTCAAGGTCCTCCCAATA[A/T]CCTTGAGGTTCCCT
7998b	94 A C ---	---	GTGTTGATCTCACTGGGTGCTGCAGGCCGGAGCTGTTCCCTATTCAGACATCTTGCCAGCTCTCCTGTGA ATACCTTTAATGAATGGGTGATGCTCT[A/C]TCTCTCAAGGTCCTCCCAATAAACCCTTGAGGTTCCCT
7998a	75 A T ---	---	GTGTTGATCTCACTGGGTGCTGCAGGCCGGAGCTGTTCCCTATTCAGACATCTTGCCAGCTCTCCTGTGA ATACCTTT[A/T]ATGAATGGGTGATGCTCTATCTTCAAGGTCCTCCCAATAAACCCTTGAGGTTCCCT
8071	119 A G ---	---	AAATACAGAAATTTTATTTAGAACTGTTTAAAGTAGAAAAAACCCCTGTCAAGAAAGACCCAGGTGG AAAATGGGTCCCAATAAAATGGAATTTTAGGGCAACAAAAGCTAAAAGGCC[A/G]CAAAAAGAGA AATAGCACCACTGTCAATTTGAACAATGGCTAGTTACTTGCAATTTTGGCATTGTTAATCACTGAATC TGGGTTTTCCTCTGAATCCACACAGAGCATGCACTACACAACATTTTATCAT
8467b	93 C T ---	---	AAGGCTTTCCTCTAAACATCAGTCTACGGAGAAACTGGGAAAATCCTGGATATTTGGCTTATCATT TGACGCAAAATCCACTTTGCTGTAA[C/T]GGTCAATCCGAACCTCCCTTCAGAGAGCAAGCAAGCAAAA TTAAGTGTGATACTGGAGCTTATGCATGCAAAAAGCTTGCAAAAAGTATTAAAGGAAAAATTACTG
8467a	70 A G ---	---	AAGGCTTTCCTCTAAACATCAGTCTACGGAGAAACTGGGAAAATCCTGGATATTTGGCTTATCATT TG[A/G]CGCAAAATCCACTTTGCTGTAAACGGTCAATCCGAACCTCCCTTCAGAGAGCAAGCAAGCAAAA TTAAGTGTGATACTGGAGCTTATGCATGCAAAAAGCTTGCAAAAAGTATTAAAGGAAAAATTACTG
8498	84 C T ---	---	AGGGTTCAGGGTTGGTTTAAATCAGGCTGCACACCTTTCAAATCAATCTGACATCTCTATGTCA AACTGGCTTCAGCTAG[C/T]AATACCTTCAATAAATCGAAAAGAAAAAATTCCTTTAAGGAAAAAA AATCCAGTTTAAAGAACAAATAACATTAGTCTTTAAATAAAAGGAGGGCTAATGTTTCATGTTGCT TTATACATCCTTCTCCTCAATACAGAACCCAGGAATGTAATTTTCCCTAACTCAG

WI-18562	29	G A ---			CTAAGGAAAAATTTAATGATGGAATATC[G/A]ACAAATATTCAACATCATTTAAAAACAAAGTAG CTTCTCTATTTTACATAGCTTAGTTGGGATAGAAATAGAACTAATGTTTACAATGATTCTTACATT TAGCATTAATCAGAAACGA
WI-18618	51	A C ---			ATAGCAGACTTTTAAATCAATGCCAGAGACAAAGTGAGCCGAGCTAAGAAC[A/C]CGCTCAGCTTCG TTACAATGAAGAAATGGTTTCCCTTCGATGCAGAAATATAATTGTAACCCACAGTGCTCGCACAGTTT AC
WI-18683	22	C T ---			TAACTGTTTCAGGACTGGACTC[C/Π]GGTCCCCTTTATTGAGACTGACAGGCCAGTGGGTCCACCCAAA CAAAATAAATTTCTCTCCCAAGCCTGCCTGCAGT
WI-18520	75	G A ---			GACTTTGGTGATTAAATGCTTTTCCCTTAAATATGAGAAATAGGTGTAATTTCTCCTTTTGTCTTTT ACTACA[G/A]CCGGAGTGGTAAATACTACCTACTGCCAAACACAGGGCATCCACTCTGTCTTCAA TGCCTCTCCGTGAGAC
WI-18563	94	A G ---			AAATAAAGTTTTATTGGCACACAGCCAAAGCCCACTGGATGACACATTGTCCACGGCTCATCTTGCAA TACAATAGCAGGGTTCACTAATGTGAC[A/G]GACATGGTGGCTCACAAAGCCAAAGATAATT
WI-18582b	69	T A ---			GTCCTATTTCAATTTAGCTAGACCCATTTCATCTGTTTAAATGGCTACATTTGTTTTCATTTGTGAGAC IT[A/G]TGCCATAATTTAATCACTAGTGCCATATTGAAAGACATTTGGATCGTTTCCCAG
WI-18723f	94	G A ---			AACTTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTGACTGTCTGTAGATTTTGAAAG TGGTAACAGGTACATAGGTAACCAA[G/A]TATATAGCTTATTTGGTGAATCTTCATCCT
WI-18723e	71	T C ---			AACTTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTGACTGTCTGTAGATTTTGAAAG TGGT[C/A]ACAGGTACATAGGTAACCAAAGTATAGCTTATTTGGTGAATCTTCATCCT
WI-18723c	96	A G ---			AACTTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTGACTGTCTGTAGATTTTGAAAG TGGTAACAGGTACATAGGTAACCAAAGT[A/G]TATAGCTTATTTGGTGAATCTTCATCCT
WI-18619	44	G A ---			TTTATTACAATAATTAGGTGGCACAAATAACTAACAGCTTCTGA[G/A]ACAGGAGGTAAACATTCTCA TAGACTTTGCAACTCAGCCAGAGTAATAAACTCGAAATA
WI-18715	76	G A ---			TTATTCACAAAAAGTGATATTGCAGAGGGTCTGGGGCTGTACATGGGCAGGGCTTGGTGAGCTTTG TACATGG[G/A]CTGGGAGACAAAGGAGCCTCCAGGTGGAAGGTATTTTTTAATAAAAAAATAA TGGAGCTACAACCCACCC
WI-18535	107	G A ---			GTAAATAAAGTTTTATTGGCACAGCCACGCTCGTTCATTATATGCCATTGACATCTGCTGTGCCCT ACACAGCAGGGTGGGACCTGCTCTTCACGGGAGAGCTA[G/A]TTGTTTAAAGCAGTGGTCCCCAAC CTTCTGTGTCCTCCCGTG
D17525	107	C T ---			AGAGTGGTCAGAACACAGCCGAATCCAGGCTCTATCACTTACTAGTTTTCAGTTCTGGGCAGGTGAC TTCATCTCTTCGAACCTCAGTTTCTTCATAAGATGGAA[C/Π]GCTATACCTTACCTACCTCGTAAAA GTCTGATGAGGAAAGATTAACTAATAGATGCATAGGACTTAACAGAGTGCATAGCATACACTGTTT TCAATAAATGCACCTTAGCAGAAGGTGATGTGTCTACCAGGCAGACGAAG

DWU-133c	313 A G ---	---	TAATTGGCCACTGCCCTTATTTATACAAAACAGAAATGCTCATGACTTTTATGTTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAAATATTTGTTGGCAGTCCT GATTTAAAACCTAAGACTGGCTTGTTGTTAAATGAATATGTTGAGTTTGAATTTAATAGTAACCTC AATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATATGATTAGACT
DWU-133b	236 T C ---	---	TAATTGGCCACTGCCCTTATTTATACAAAACAGAAATGCTCATGACTTTTATGTTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAAATATTTGTTGGCAGTCCT GATTTAAAACCTAAGACTGGCTTGTTGTTAAATGAATATGTTGAGTTTGAATTTAATAGTAACCTC AATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATATGATTAGACT
DWU-133a	199 C T ---	---	TAATTGGCCACTGCCCTTATTTATACAAAACAGAAATGCTCATGACTTTTATGTTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAAATATTTGTTGGCAGTCCT GATTTAAAACCTAAGACTGGCTTGTTGTTAAATGAATATGTTGAGTTTGAATTTAATAGTAACCTC TTCCAAATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATATGATTAGACT
DWU-36	102 C T ---	---	ATGAGATCCTTTAAATCCTTCATGAACGTTTGTGTGGTGGCACCTCTACGTCAACATGAAGTG TGTTTCCCTCAGTGCACTGGGAAGATTTCTACCCTGACCAACAGTTCCTTCAGCTTCCATTCGCC CCTCATTATCCCTCAACCCCGCCACAGGTGTTATACAGCTCAGCTTTTGTCTTTCTGAGGAG AAACAAATAGACCATAAAGGGAAAGGATTCATGIGGAATATAAAGAT
DWU-387	169 G T ---	---	GTGTATAAATGCAACTGTTGATTTCCCTCAACATGGCTCACAAATTTCTATCCCAATCTTTCTGAA GATGAAGAGTTTAGTTTAAACTGCCTGCTGCAACAGTTCACCTCATATATAAGCATATTTTAA CTCTTTGAGGTGAATATAATTTATACAAATGCTGTTAAAGCTTCTTTAATACTAAGTATTTTCA GGCTTCCACCAAGTATCAAAAGTAAATACACAAATGAAGTGTCAATTATTCAA
DWU-447b	172 --- ---	---	ATTTTAGTGTCTTTGCGTTAAAAATCATTGCAAAAGTATTCTGAAGTGTCAAGCTGCCAGTCAGAT GGGCTGTTGCCATTTAAATCACTGTAAATTAATTTGATTAGAGCACAAAGCTTAGCTAATCAA CCATTATTTTCAATTTGTTGTTCTAAGAGGATTGANAATCAGTTTAGTTAAATGCTTTCTGTTAG GCCTTTCTTTCTTACAATGAAGAGATGATTTCTTAGTTATGGTTA
DWU-447	85 A G ---	---	ATTTTAGTGTCTTTGCGTTAAAAATCATTGCAAAAGTATTCTGAAGTGTCAAGCTGCCAGTCAGAT GGGCTGTTGCCATTTAAATCACTGTAAATTAATTTGATTAGAGCACAAAGCTTAGCTAAT CAACCATTAATTTTCAATTTGTTGTTCTAAGAGGATTGANAATCAGTTTAGTTAAATGCTTTCTG TTAGGCCCTTTCTTTCTTACAATGAAGAGATGATTTCTTAGTTATGGTTA
DWU-476	63 C G ---	---	GTAAAAATTCAGTTTTTCCAGTTCCTCTTTTGTGCTGCTCTCAATTAGCGTTTAAGGTGAGTCGAT AAATCAACTGTCCATCAGGTGAGGTGCTGCTCCATACCCAGCGTTCTTCATGAGTAGTGGGCTATGCA GGAGCTTCTGGGAGATTTTTT

DWU-505	67 A T ---	---	TCATAAGGCGAGTATCTCCTCTAGCTAGTGGCCATACAGAAAAATCTATCACCATACAAAAATTA A/TJTGACGATATTTAAAGCACAGGTGTACCGAAAACTGTGAAAAGTCTGAATTTATGGGTT CTATGCATGCAATTTTGCCTAACCTAGAGAAAGAGTTTGATAAAATTTTACCAGCTTTGAAGATGGAT TAACITTTGACITTTGAGCTTTAAACITTTAA
DWU-512	131 A G ---	---	AAATCCAGGCATTTGGAATCTGTTTTTCATGATTTATAGAGGGTTTACACAAAGTGCCACTTATTAA AGAGCTTCCACAGTGAAGATGGAGAAAGGTGAACITGCTTTTGAATATTTCCAGATGTTTGGTC[A/G] TGCGTATGGCAGTGAGCAGGTATGTTTGTCTTTGCTTGCACTGAAAAATTAATTTGCTATCAAGAGC AACTATGAACGGTTTTTTATTCAAGATGTCTCCAGAGTGAAGATGCCGAG
DWU-525	97 A C ---	---	AACTGCATATAGATAAATTATCCAGGATGTGTGGCTCATTTCTTCAGCTTGTTTCTATACTGTTGTA ATATACAGTTTTTGTAAACCATATGATTGA[A/C]AAGAAGAAAGTCTATGCTTAGGCCAGTCAGTACA CCCAATTTTAAAAAATAACATATCTTGCTTTCACAAATATAGTTGAACAAGATTTCCCTAAAAAT CCACCAGGATTAATCTCTAAAAATCTAGTCTCTGATTTCG
DWU-59	94 C T ---	---	CATTTCTTTGTAAAGGTAATGGACTCACAAAGGGGAAGAACATGCTGAGAATGGAAGTCTACCGG CCCTTTCTTTGTGAACGTACATTGGC[C/T]GAGCGGTGTTTCCAGTCCCAGGTGGCAGACTCGTTTTG GTAGTTTGTTTAACTTCCAAGGTGTTTACTCTGATAGCCGGTGATTTTCCCTCCTAGCAGACATG CCACACCGGGTAAGAGCTCTGAGTCTTAGTGGTTAAGC
EST11	68 C -- ---	---	CTTGATCATGGGTGGAAATTTGTGTATCTGGGCTTCATGGGATGCATAAAATTTTCCAGTTGGTAAG CAGCAGGTGCCAGGGTCTGGATCAGAAAAAAGGCA
WI-19856b	63 C T ---	---	CACACTGGCATCTAGGCTTCGCTGCATTGCAGAAAGGAGAGCCAGGTCCTCCCTGGAGAA[C/T]G CTGCGTTCCACAGCCCCACACCGGCTTTGCACACACAGGCTGTTGAGGCAGGAGGTGGTAAAGACGT AGCTGTAGACCCAAAGCAACCAACAGCCCTGGGACCCCTGCGGGAGAGGAGCAGCTTTAGAACATGGAA AAGTGTGGTCATCCCATCATTAGACAAGACACATCCTACATAATAAAAAAGT
WI-18014	40 A G ---	---	TCCATTTACATTTGGTGGCATTTGTTGAATAGCTACAGAA[A/G]GAATGAAAGTGCAACATCAGAGT GTAATTAGGTCTGTGTGACCCAGGAAGTGTCTGTTAAACAGAGATTTCTCAAGGGCAAAGTGGCTTCT A
WI-18036b	97 T A ---	---	TTCCAATGTAAAGTCAAGTACCAAGTTAAACTTCTAGAAAATACAAAGAGAACATGATAAAATCTG ATCACAGTGGAAAAATTTTAATCTTTTCATAA[T/A]CTGACAGGTCAAGTAAAGCTAAAGGAAACATAT TAGGGATCTGAAGG
WI-18036a	27 T C ---	---	TTCCAATGTAAAGTCAAGTACCAAGTT[T/C]AAACTTCTAGAAATACAAAGAGAACATGATAAAAT CTGATCACAGTGGAAAAATTTTAATCTTTTCATAATCTGACAGGTCAAGTAAAGCTAAAGGAAACATAT TAGGGATCTGAAGG
WI-18046	72 C T ---	---	TGTAAGGTGACTTCTATAGCTTCTTAAACTGTCAAACITTTTCACTTACTGAGATTATTTTCAGGCCAAT GTGTC[T/T]TTGGGTCTGAGATTGATTATCAGCTGGGTAAGTTAACCTGTTCTCTGTTTCA



WI-18063	105	G A ---			AGGCTTTAACTGATAACAAATTTGCCCTTTAATACATACAAAACTCTGCACCTTTTCATTCCTCCTTC CCATGTTTTCTGATTTGATGTAACTTAAATTTGT[G/A]TCCCTTTAACAATATACTGTAGCTGCA
WI-18078	86	A T ---			AGTTGAAAGATCAGAGAGGTTATGGTTGGTAGCTAGCTGAACCTCAGATTCAAACCTGGTCCAGTGTG TTGTTTTTTTCAGCATCAG[AT]GTCCACTAGCCAAGTTGATCTCTGCAGTATCTACATGTGGT
WI-18091	90	T C ---			CCAAAGCTCACTCAGTATTTAATCATCTGCTAATTCATCCTTTTGTAAATCCATCAGACACTGTGGT TTTCATCTCTAGAAGTTTGACIT[C/GGGCCCTTTTATACCTTCCATATCTCAACTTGTAAAGC
WI-18119	38	T C ---			GCAATCTGTAAACAGTTTTGGTAGTGGTATTACAGAGGA[T/C]TTGTAATAATGGATGGAGTACTTAC CACTATTTTCATCTGCTCTGAAATAGTTCACCTAACCAAACTACTGACAACAGITTAATTTGGTTCCT
WI-18142	66	T G ---			TTCAAGATAATTACAATTGGAAGGGGACCATAAATTCACCTTTTAAATCGAAAAATAATCTATATAC[ T/G]CCCAATAAACTCACAGTAAATAAGCTTCAAAAAGCCTTAAGACACCAAAAAGAGGAAAA
WI-18178	68	T C ---			GCATAGGGTTGAGGGGTGTACAAGAGGAGAACCCAGATTCACTCCATGCCTGGAGGTAGTCTGGGGG G[T/C]CGGGGGGATGGACACAGACAGACACATAGATCTGGCATCTGATAGCAGGGCATACAG
WI-18244	35	G T ---			TCAATCTGAAAACCTGCTGTAGCCAGCATGGGGT[G/T]GGGGAGGTGATTATGGCTGGGGAAGATG GGCACTACCCGACAGCAGCATCTAGCACACAGTGACAGGGACGTTGAGGTGGCAGAGGGCTTT
WI-18245	115	G A ---			ACAGATGTCAGTTGTTGAATTGGCCCATTAAGTATGGGGCTTTCTTGTAAAAAGTCAATCCAAA AGGCTTGGCAAGAGTTTGTCTATACACGGGAGGACAGAGAAACATGA[G/A]CTGGGGAGTAGGCTCT GACAGAAGGTGGGCTGTC
WI-18261	26	G A ---			GATTTGAAGGGATTGCTTTATTTAAAC[G/A]TGAAAAAGCGTGATAGAGGAACTGTTTAAGATAAACAA CTTATAATACTCCCAATTGTAGAAGTGAAAGATTG
WI-18268	88	C T ---			TAGGAGGGAAGAGGAGGTGGCTGCCCTGGGCCCTCAAGACATGAGAAAGCGGTGGCTTCCAAGC TTCTTACTTCCCCCATAGAT[C/T]CCTGACAATGTGCTGCAGAAAGCCTCCAACCTGGAAC
WI-18299f	107	C A ---			TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACCTGGTTGCCAATTTTTT ATCTATTTGGGTCTGAGAAATCCACAAATTTTGAAGAAATTCCTTTGGCCAAATTAATTGACATATTCTG CAG
WI-18299e	101	A G ---			TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACCTGGTTGCCAATTTTTT ATCTATTTGGGTCTGAGAAATCCACAAATTTTGAAGAAATTCCTTTGGCCAAATTAATTGACATATTCTG CAG
WI-18299d	77	G A ---			TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACCTGGTTGCCAATTTTTT T/GATCTATTTGGGTCTGAGAAATCCACAAATTTTGAAGAAATTCCTTTGGCCAAATTAATTGACATATTCTG CAG
WI-18299c	67	T G ---			TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACCTGGTTGCCAATTTTTT T/GATCTATTTGGGTCTGAGAAATCCACAAATTTTGAAGAAATTCCTTTGGCCAAATTAATTGACATATTCTG CAG

WI-18299b	52 GA ---	---	TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCAATTAACATTG[G/A]TTTGCCAAATTTT TTTATCTATTTGGGCTGAGAAATCCACAATTTTGAAGAATCTTTTGCCAAATTTATTGACATAATCTG CAG
WI-18299a	48 CT ---	---	TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCAATTAACATTGTTTGCCAAATTTT TTTATCTATTTGGGCTGAGAAATCCACAATTTTGAAGAATCTTTTGCCAAATTTATTGACATAATCTG CAG
WI-18307	76 GA ---	---	TCAACTTGTACCAAGTTTAGCAGCAAGAGGATACCTCTTAGAGACTTTCAGTGGACTTAAACTCAG TTTCCGCTG[G/A]TGCTATGTAAAGCATCCACGATGGTTTATTGTACTCTGCAATCTGCTTGGTCAC
WI-18324	72 CT ---	---	TTTGGTATGAATCTTTCTCTGACATTTACCAATCATCACTTAAACTCCGGGGGGTGGGTACTGATT TATC[C/T]TAGATCCAAATAAAGCATGCAGAAGTG
WI-18350	48 TC ---	---	ATGAAAGTCACCTCAATCATAAGGGTCAAGAGAAAGAATGTTTTTCAGAT[C/T]TAAATCTATGAAAA GGTGTATCTGCTTGCAATTTAAGAAACAACACAAGTCA
WI-18395	77 GC ---	---	TCCTGACATGATCTGTGAAATAACGTGATTGGTTGAAATTCCTGGAATAATTTGAAGAATAAATTG ATTATTCAAG[G/C]TGTCATTGGTTTATACATACTCTCTCTCTTAATGCAAGCTATG
WI-18398	62 GT ---	---	TGCAGTGGCAAGACACTCTCTCGAGGAAAAAAGAAAGAAAGAAACAACTCAAGGGTT[G/T] GATAACATTGCCAGTATAACCAATAATTCAAAACAAGCAGCAGAAATTTGGAGGATAATTTGTT
WI-18396	21 CA ---	---	CTCGTTGGTATTCTCTCATCC[C/A]TTCCCTTTTCGCTCTTTCTAAAATTAAAGAAAGCAATGGAATT TTAAAAGATCATCTAAGAAATAAGAACTTACATATGTAACATTTAACTTATCAACTTGACAAAAGTC AATGAAAA
WI-18409a	20 CA ---	---	AAGATGGGAAAGAGGAAATC[C/A]TTTTCTTACTAGAGATTTTTTCCCTTTAATCCTTTTCAAAAT TCAAAGGATCATCAAAGGAGCAGGTGCAGAAAGCTCTGGGGCCAGAGGCCCAAGTGCTA
WI-18442	62 CT ---	---	AAAAAGGAAAGAAAGGATGGAGTAAGAGAGAGAGACAGAGGAGGAAACAAAATAAGTTTCTGG[C/T] JTTGGCTGATCTGGGTGATCAGGTGGACACTATTATCCAGAAAGGAAACACAGAGAAAAAAGG TTTATAGGTGGGAGAGAGGA
WI-18452	38 GA ---	---	TTGATGTTAATACTGTCAATCTGGAGATCGGCTAAAAAT[G/A]AAAGCATAGTTATTATTAGCTTTGG TATATTCTGCGACAGATTTTAAACAAGTAAGACATATATCAACCTCATATTTTCCAACCA
WI-18489	102 AC ---	---	ATATAAGCTGGAGACTGTGGAGGGTGAGAGGCAGTGGGACTAGCTGTGAAAGAGAGAAATGTAGC AGTAGTAAAGATGAAAGACTGCAAGGATTCAAACA[A/C]GGTTATGGCAATAGAGGTGAAAAAGAAA AGGCCATATAAA
EST5b	93 A ---	---	CTGGTGGGAGGAAACAAATTGTGGTATATTCATACAATGGAAAACTCTTCAGAAAATAAGAAAGGAA CAAAACCACCTGAATCACACAACATGGACAAATCTCAAATCATTTATGCTGATGGAAAGAAACCATTCA TAAGAATACACAGTACAT

EST5	93 A ---	---	CTGGTGGGAGGAAACAAATTGTGGTATATTCACAATGGAACCTCTTCAGAAATAAGAAGGAA CAAACCACTGAATCACACACATGGACAAATCTCAAAATCATTTATGCTGATGGAAGAAACCAATTC TAAGAATACACAGTACAT
EST6	48 C ---	---	TTAGCTACTTTTCAGAAATTGAAGGAGAAAATGCATTATGTGGACTGAACCGACTTTTCTAAAGCTCT GAACAAAGCTTTTCTCTTTTGCACAAAGACAAAGCAAGCCACATTTTGCATTAGACAGAT
EST8	158 A ---	---	GGACAGGACCTCTATCCCGCTGGTGCAGACGGCTGATGGACTAGGCCCCAGGGGATACTGGGCC CTCTTCTAGGGGGCTCTCCAGGACCCAGAGCTGTCTGCTTTGAGTTCCCTAGAGCTGTGCGGCCA GATAGCTGTCTGAGTTGCAAGCACGATGGAGATTGGACACTGTGCTTTTGGTGGGT
WI- 18740c	104 GT ---	---	TCCTCATTTGTTGGGGATGATGAGAAGAAATGATTTGGGAAAATTAAGTAACAACGACCTAGAAAAGT GAGAACAACTCATTTACCACATGATATCCAGTAGTG[G/TTATAATTCATTTTGTGGCTTCTATTTT TGGCCA
WI- 18740b	96 C G ---	---	TCCTCATTTGTTGGGGATGATGAGAAGAAATGATTTGGGAAAATTAAGTAACAACGACCTAGAAAAGT GAGAACAACTCATTTACCACATGATATC[G/AGTAGTGGATAATTCATTTTGTGGCTTCTATTTT TGGCCA
WI- 18985a	105 CT ---	---	CCAAAGTCTCTGTTGGCTCATAAAGAAAGTTTGGGATGGGAGAGATCCAGACCATCTTTGGGGCA GCCAGGCCCTTGCTTCATTTACAGAGGTAGCACAA[C/TTTGATTCACACACAAACCCCTTCCCC TTTTAAATGATTTCTGTTCTAATGCCATAGATCAAAGGCTCAGAAACCATTTGTGTTTCTCTCT TGAAGCAATGACAAGCACCTTACTTTCACGGTGGTTTTTTTCTTAT
WI-18746	114 GA ---	---	GCCAGCAGCTGAAGTCTCTTTTCTCTCTCGGCTGGAAGAACATCAAGATACCTTTGCGTGGATCA AGCTTGCTGACTTGACCGTTTTATATTACTTTTGTAAATATCTT[G/A]TCCACATTCCTACTTCAGCT TTGGATGTGGTTACCG
WI-19112j	212 GA ---	---	CCGTGTTACACACACACAATGGCAAGCATAGTCGCTGGTTACGGCCCGGGGAATATGCCAAGG GACCCCTTAATGGAAACACAGATCAGTAGTGTCTATCTCATGACAACCAACAGAAACCGACGACAAA TCCTTTGCGAGATTTCTCTAGTGGCTTAGAAACATGGCTTTAAGAAACACGGTGATATCTTTGAG GGTGACAAGGG[G/A]TCTCTTCAACAGTCCATACCACTGCTTTGCTCTAG
WI-19092	232 AC ---	---	TGGTGGCTGGCTAGCTAGTTCTACAGAACATAATTTGCCTCTATAGAAGGCTATCTTAGATCATGT CTCAATGGAACACTCTCTTCTTAGCCTTACTTGAATCTTGCCTATAATAAGTAGAGCAACACAC ATTGAAAGCTTCTGATCAACGGCTCCTGAAATTTTCATCTTGAATGCTTTGTATTAAACTGAATTTTC TTTTAAGCTAACAAAGATCATAATTTTC[A/C]ATGATTAGCCGTGTAAC
WI-19057i	175 GA ---	---	CCCATTTATTATAGGCCAGTGATGCTCAAGAGTAGAGGAGCGTCTACTGGTCTTTCAACTCCTTCA GTCTTCTGACGGGGACTTTACCGTGACAGCGGAAGTGGTATTGACGTCAGGCCACCGCAGCCACTG TCTTCATGCAGGAACCCACAGTGCCAGATCCCCACAGCTC[G/A]TCTCTTCTATCTTGGTTTGGCACA

WI-20103	168 C T ---	---	TGGACTTCCAACCTCAGAGGATGTGGGAATCCCAGCTCAAAATGATACAGGATAAACTGGGATGGGCT AGGATGGACAGGCTGTGGATATGGGAGTCATGGGTCAAGTCTTATCCCAGATGGCTCCAGGTACAG TGGGCTTCTGGGCTGGAAGCTGGGTCTCCCA[Q/J]TTCATCTGCTCAAAGCTTCTTGAAGGAGC TGGTTTGACTTCAACTTGTAGAGCCTAGCCTCATCTTTCAGTCAACTGGGA
WI-20441	111 G A ---	---	GCCTTACCCATTTTGCACATATACATATGCACCCTTTGCACTGGCAACATATATATCCACACTA TAAACATACCACATTTATAATCTTGTAAAGGACAAGAAATGGA[G/A]TTGAAATAAGTACCCCCCAA CATATACAAGAAAGTTAGCATACTTACCCCGTTTTCTACTACATCAGAGGCAAAATAAGAAATCTTT TAAGAAATCTCAAGACTGGCTCATGGCAAAATGAATATGCTAAATTTGGGGG
WI-19911b	116 A G ---	---	TGGTTACAAACCTAAGCCCATATACAAAATTAGGAACACATTTAGATGCCTCTTTTGAAGAAGCT TTTAGTCTTTTAACTGAGTTTAAAAAATAACAATGCAATTTTTT[A/G]JACACTGTTTTGAAA ACTTAAAGTGCAGCAATA
WI-20613c	165 A G ---	---	GTCTCAAGGGGGAGAAAACCTGGTCTTTTATGTACAAAGCACAGATGTAGGTACAGTATATAAACA GATACGTAGTACATCTGTAGTATTAAATGGCATGGGAGGAGGCAGTTAGAAAAACATCTAAAC AGCTCCTTAGAAGGCCAATAATAAGTTGAA[G/A]JAAAGGAGTTTCCACGCAGCCAGTGTGAGC TGC
WI-20613b	156 A C ---	---	GTCTCAAGGGGGAGAAAACCTGGTCTTTTATGTACAAAGCACAGATGTAGGTACAGTATATAAACA GATACGTAGTACATCTGTAGTATTAAATGGCATGGGAGGAGGCAGTTAGAAAAACATCTAAAC AGCTCCTTAGAAGGCCAATAATAJ[C]JAGTTGGAAAAAGGGAGTTTCCACGCAGCCAGTGTGAGC TGC
WI-19984	47 A G ---	---	CAGTAAAGAGTGATTCAGTTGCAGTAATACACTGACAGGTAAAT[A/G]JATAACATTAGAAAA GCAAAATTCITTTAACTTAAGGACAGACTGAACCATCAGGTATGGTCTGAGTCAAGTAATACAGG TAGGCAAGAGTTTTCACACACTGGAAAAATGAAGGCAGTTTCCAAATACTGTGAATTTACAAACAT TGGGGGAAGG
WI-20122	135 T C ---	---	GCCAGTTGGAATATGGCCTATACGAACCAAGAGTGTATACAAATGGAAGTGCATCAGGCAATA ATTGTTTCTTGGAACTCTGCCCGACTGTCCATGCTCTGTGGGACTTACACATTCAGTTTGACAGI T/C]TGAAAAACCAACTGGAGCTGCTTTTCCAAAGAATGTTCTGTCTTCAAATAGGAATTCATG TTATTCTTCTTGCCTTAAGCTCTTATATCTTCAAATGACCTAAGCTGA
WI-18846a	49 G A ---	---	GAGTGCCATACCTTCTCCAGGCCTCTGCCCCAAGAGCAGGAGGTGCCT[G/A]JAAAGCTGGAGCGT GGGCTCAGCAGGGCTGGTCACTCCCATCCCGTAAGACCTCCTTCCCTCCTCAGCAGGCCAAACATG GCCAGACTCCTT
WI-18959	123 G A ---	---	AGCAGTGGCCTTATTGCATCCCAAAACCACGCCTCTTGACCAGGCTGCCCTTGTGGCAGCAACGGC ACAGCTAATTTCTACTCAGTGTCTTTAAGTGAAAAATGGTGAGAAAGAGGCAC[G/A]JGGAAGCCG TCCTGGCGCTGGCAGTCCGTGGGACGGGATGTTCTGGCTGTTTGAATTCCTCAAGGAGCGGAGCAT GTCGTGGACACACACAGACTATTTTAGATTTCTTTTGGCTTTTGAACC

WI-20146	31 T C ---	---	---	TGAGTCTTCTGTAATTCATTGAGCAGTTAGC[T/C]CATTTGAGATAAAGTCAAATGCCAAACACTAG CTCTGTATTAATCCCATCATTAATCTGTAAGCCCTCATTTGAATGTGTAATTCATCAATACAGGC
WI-18922	74 G A ---	---	---	TAGGAATTGGTTTACGCCCTGAGGCAATTAGACACITTTGGAAGATGGCATAACCTGTCTCACCTGGAC TTAAGC[G/A]TCTGGCTCTAATTCACAGTGTCTCTTTTCTCCTCACTGTATCCAGGTTCCCTCCACAGAG GAGCCACCAGTTCTC
WI-18763b	53 A G ---	---	---	TTTCTGTGTTGGGGTCAACCGTACAATGGTGTGGGAATGACGATGATGTGA[G/A]GTATTTAGAAATG TACCATAATTTTGTAAATTAATTTATGTTTTCTAAACAAATTTATCGTATAGGTTGATGAAACGTCA TGTTTTTGCCAA
WI-18763a	38 A G ---	---	---	TTTCTGTGTTGGGGTCAACCGTACAATGGTGTGGG[A/G]TGACGATGATGTGAATATTTAGAAATG TACCATAATTTTGTAAATTAATTTATGTTTTCTAAACAAATTTATCGTATAGGTTGATGAAACGTCA TGTTTTTGCCAA
WI-18771b	75 G A ---	---	---	CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAGAGATGTTGGG AACAGAA[G/A]AAATAAACTGAGTTTAAGGGGGACTTAAACTGCTGAAATTCACCTGTGGA
WI-18771a	57 A G ---	---	---	CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAG[A/G]AGATGTT GGGAACAGAGAAATAAACTGAGTTTAAGGGGGACTTAAACTGCTGAAATTCACCTGTGGA
WI-18820	70 T C ---	---	---	GGGAAAAATTTGAGACGCAATACCAATACTAGGATTTTGGTCTTGGTGTGATGAAATTCAGAG GCC[T/C]TGATTTAAATCTTTCATTGTATTGATTTCCCTTTAGGTATATTGGCTAAGTGAAACTT GTCA
WI-18742b	51 C T ---	---	---	ACAAAGTCCTGTAGCCCCCTCACCTTTCCCTGTTTTCACITTTGCCAATG[A/C]TATCGGGTTTGGTTT TCTTGATTAATTAACGGTTGTGGTTTCCCTTTTCCACGGAGTTCAAGTAAAGCCGCTGCAGGAGA GTTTTACC
WI-18882	94 C T ---	---	---	GTGTGTCCAAAAATGGGGTGTCTGCTGCTACCTTGACCCCTCCCTTTCCCTGCTTCTCTCCTCATCA TCAATCCCAACAACATCCTCTGCCA[C/T]ACACAACAAACGTAAGTTTCAATTTGGGCAAAAAATTGA GC
WI-19970b	167 G A ---	---	---	TATAAGCCCGAGTCACAGGACGGCCTGTCTGGCCACAGACAGGGGCTGCCTGTGGAGCCTGCCACCC GGCCCCGGCAGTGCAGTCCAGCGGGGAGGAGGCTGCCGTTCTCTGCAAGTTCCTCACTGCGGGGACC AGCAAGGCCCTTCTCACTGGTTGGTCAAAG[G/A]TAGTCACCTTGGCCTGGTGCATCCACAGAGGA TGTTGTTCAAACCCAGAAATCTTTAAACGACTGACCTTCTTAAAAACAGA
WI-19970a	126 T C ---	---	---	TATAAGCCCGAGTCACAGGACGGCCTGTCTGGCCACAGACAGGGGCTGCCTGTGGAGCCTGCCACCC GGCCCCGGCAGTGCAGTCCAGCGGGGAGGAGGCTGCCGTTCTCTGCAAGTTCCTCACTGCGGGGG ACCAGCAAGGCCCTTCTCACTGGTTGGTCAAAGGTAGTCACCTTGGCCTGGTGCATCCACAGAGGAT GTTGTTCAAACCCAGAAATCTTTAAACGACTGACCTTCTTAAAAACAGA

WI-19067d	202 T G ---	---	TATTGCTGCTTGCTCACTGCCTGACATTCACGGGCAAGGAGGCTGCTGCAGCCTCCCTGGCTGTGC ACATTCCTCCTGCTCCCAAGAGACTGCCTCCGCCATCCACAGATGATGGATCTTCAGTGGGTTCTC TTGGGCTCTAGTCCCTGGAGAATGTTGTAGGGGTTATTTTTTAAATAGTGTTCATAAAAGAAAT/ GJACATAGTATTCTTCTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19067c	153 G C ---	---	TATTGCTGCTTGCTCACTGCCTGACATTCACGGGAGAGGCAAGGCTGCTGCAGCCTCCCTGGCTGTGC ACATTCCTCCTGCTCCCAAGAGACTGCCTCCGCCATCCACAGATGATGGATCTTCAGTGGGTTCTC TTGGGCTCTAGTCCCTG/CJAGAAATGTTGTAGGGGTTATTTTTTAAATAGTGTTCATAAAAGAA ATACATAGTATTCTTCTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19067b	151 T C ---	---	TATTGCTGCTTGCTCACTGCCTGACATTCACGGGAGAGGCAAGGCTGCTGCAGCCTCCCTGGCTGTGC ACATTCCTCCTGCTCCCAAGAGACTGCCTCCGCCATCCACAGATGATGGATCTTCAGTGGGTTCTC TTGGGCTCTAGTCCCTG/CJGGAGAATGTTGTAGGGGTTATTTTTTAAATAGTGTTCATAAAAGAA ATACATAGTATTCTTCTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19067a	57 C G ---	---	TATTGCTGCTTGCTCACTGCCTGACATTCACGGGAGAGGCAAGGCTGCTGCAGCCTCCCTGGCTGTGC TGACATTCCTCCTGCTCCCAAGAGACTGCCTCCGCCATCCACAGATGATGGATCTTCAGTGGGTT CTCTGGGCTCTAGTCCCTGGAGAATGTTGTAGGGGTTATTTTTTAAATAGTGTTCATAAAAGAA ATACATAGTATTCTTCTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19106	247 T C ---	---	TTAATCCAGCCCTACCCCTTGTTAGTTATTTAGGAGACAGTCTCAAGCAGTAAAGTGGCTAATTC AATTTATGGGTATAGTGGCCAAATAGCACATCTCCACGTTAAAGACAGTGGATCATGAAAGT GCTGTTTTGCTCTTGAGAAAGAAATTAATGTTGAGCGCAGAGTAAATAGGCTCCTTCATGTGGC GTATTGGCCATAGCCTATAATTGGTTAGAACCTCCTATTTAA/T/CJTG
WI-18944	147 A G ---	---	CAAGGCAAAATATCAGGAGCTTTTTTACACACCTACTAAAAAGTTATTATGTAGCTGAAACAAA AATGCCAGAGGATAATATTGATTCCTCACATCTTAACTTAGTATTTACCTAGCATTTCAAACCCC AAATGGCTAGAAC/GJGTGTTTAAATTAATTTCACAATATAAAGTTCTACAGTTAATTATGTGCATA TTAAACAATGGCCTGGTTCAATTTCTTCTTCTTAATAAATTTAAGTTT
WI-18952	232 G A ---	---	CCCATCCCTGTGAAGGAGTAGGCCACTCTTTAAGTGAAGGATTGGATGTTGTTCAATACATAAA GTTCTCTGTAATTACAACATAATTATTATAGCCCTCTTCTCACAGTCAAAAGGAACTGGGTGGT TTTTGTTGCTTTTTAGATTTATTGTCCTATGTGGGATGAGTTTTTAAATGCCACAGACATAATTTA AAATAAATAAATTTGGGAAAAGGTGTAA/GA/JACAGTAGCCCCATCACAT
WI-18932d	177 C T ---	---	CACACCTCATGCTAGCCTCACGAAACTGGAAATAGCCTTCGAAAAGAAATGTCCTTGAAGCTTGTA TCTGATATCAGCACTGGATTGTAGAATGTTGCTGATTTGACCTTGTATTCAAGTTAACTGTCCC CTTGGATTTGTTTAAATACCCTGTACATATCTTIGAGTTCA/JCTTTAGTACGTGTGGCTTGGTCA CTTCGTGGCTGAGGTAAGAAGCTGCTTGGGAAGACAAAGTCTGCGCTG

WI-19042	193 A C ---	---	TTTGTGAGTGTGCCTCTCGCAATGCCCTCAGTAGCATCTCAGTGGTGTGTGAAGTTTGGAGATAGATG GATAAGGGAATAATAGGCCACAGAGGTGAACCTTTGTGCTTCAAGGACATTTGGTGAAGTCCACAG ACACAATTTATCTGCGACAGAACTTCAGCAATTGTAATTATGTAATAACTCTAACCA[A/C]GGCTG TGTTAGATTGTATTAACATCTCTTTGGACTTCTGAAGAGACCACCTCAAT
WI-18984	208 A C ---	---	ATTGGCCCTGTACAGTTTGGCTTATTATAAATTCATTAACACACTACAGGTGTTGAATGGTTAAAA TGAGGCCCTCCAGTTTCATTTTCAGTTATTTCTGAGTGCAGACAGCTATTTCGCACGTGTTAAAT GTAACCTTATTAAATGAAATCAGAAAGCAGTAGACAGATTTGGTGAATACAAATATTGTGATGCATT TATCTT[A/C]ATAAATGCTAATGTCAATTATCACICGCGCATGTTTGACT
WI-18851	90 T A ---	---	GCTTCAATTGGCGATTGATTCAGTGGCCACAAATGTAACAGGGTTGGTAGTTGTTACTCATTTTGAAT ATACCTTTTCTTATTGTAATCTT[A]GTAATATAGGATCCTGGAAATGAGACCTGGTGGAA
WI-18821b	76 T C ---	---	TCAACTGCAGTGTGCTTCCCTCCCTTATAGGGCTGGAATCTGTCTAGGAGCCCTCTCTCGGAGGCC ACAGAGGGT[C]GGGGGTAGCCATTGTGCAGTCATGGCCCGGGGAAACTTGCCAACTTCGTGTCAG GTGCTGTGT
WI-18821a	69 C T ---	---	TCAACTGCAGTGTGCTTCCCTCCCTTATAGGGCTGGAATCTGTCTAGGAGCCCTCTCTCGGAGGCC A[C/T]AGAGGGCTGGGGTAGCCATTGTGCAGTCATGGCCCGGGGAAACTTGCCAACTTCGTGTCAG GTGCTGTGT
WI-19021a	20 C G ---	---	ACTCCTCTGCTGTCCAT[C/G]ACTGTCCCTTTGAACCAGGAAAGTCACAGAGTTTAAAGAGAA GCAAAATTAACATCCTGAATCGGGAACAAGGGTTTATCTATAAAGTGTCTCTTCCATCACGTTG CTACCTTACCCACACTCCCTCTGATTTGCGTGAGGACGTGGCATCCTACTACGTACGTGGCATAAC ACATCGTGTAGGCCATGTATGCTGGGTAGAGAGTAGCCCTCCCTGTG
WI-18908	70 G C ---	---	TGGAAATTCCTTTCATCTGGAACCATCAGAAACACCCCTCACACTGGGACTTGCAAAAAGGGTCAGTA TGG[C/T]TAGGGAACAATTCATCCTTGAGTCAAAAAATCTCAATTCCTCCCTATCTTTGCCACCC TCATGCTGTGTGACT
WI-19037b	155 A G ---	---	CACGGTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCTAGCCACGCCCTGTATGACCGCGCAATA TCCCAAAGCTTTTGGGTCTCAAGTCATGCCCGAATTTAGATGCTGTGTCATTTCTGGAGAGGGTC CCCTCCCTTACGAACACA[A/G]AAACCCAGCCACATGACTAGCACGCTGAGCTCTGCAGGGACCA GTGCAGGCACCTGGGGGTGGAAGTGTGTGACACAGTGAATGGGAGGTGG
WI-19037a	47 C A ---	---	CACGGTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCTAGCCACG[C/A]CCTGTATGACCGCGCAA ATATCCCAAAGCTTTTGGTCTCAAGTCATGCCGAATTTAGATGCTGTGTCATTTCTGGAGAGGG GTCCCTTCCCTTACGAACACAAAAACCCAGCCACATGACTAGCACGCTGAGCTCTGCAGGGACCA GTGCAGGCACCTGGGGGTGGAAGTGTGTGACACAGTGAATGGGAGGTGG
WI-19064	66 T C ---	---	TTGAGGAGGTGGGTGAACCTGCTCCTTGGCAGGGATTGTGACACTGCATTGCTGGGCTGTGTTCC[T/ C]CGGGCTCTTCTGGACCTTGACCGTGGATACCAGGCCATGTGCCATGTTTGGGTCTGGAGGG TGGTGAATAAAGGC

WI-18972a	112 A G ---	---	AGGCTGTGGCTTATGTCACCAACAGAGGGTCTGAGAAGTCTGGCTGGGATGCCCTCCCTGCC CCCTCTGGAAGGCTCTCAGAGATGACTGGGCTGGGAAGCAG/GTGTCTTGTCTGGCCATGGAGCC TCATTGCAAGTTGTTCTGAACACCTGAGGCTTCTGTGGCCACCAGGCACACTACGGCTTCTCTCC AGATGTGCTTTGCCTGAGCACAGACAGTCAAGCATGGAATGCTCTTGGCCA
WI-19016b	184 C A ---	---	GTTTGAAAACCAACATGTGCTCTTTTCAGTCATTCACCTGTTTTAATATGACATGGTAGAGAAGATAAG GTTTATGGCAGGTAATTTTGTAAATGTGTTAAACGGAAGTTCAAAGATTAGAAATACATCTGTGTC CTGAAAACCTTAGATACATAGCCGACTGTATACAGAGGTTCTCAAC/C/AJCTCAACACTATTGAC TTTTGGGCTGGATAGTTCTGTGTGGGGTTTGTCTGTGCACTGTAG
WI-19016a	161 C T ---	---	GTTTGAAAACCAACATGTGCTCTTTTCAGTCATTCACCTGTTTTAATATGACATGGTAGAGAAGATAAG GTTTATGGCAGGTAATTTTGTAAATGTGTTAAACGGAAGTTCAAAGATTAGAAATACATCTGTGTC CTGAAAACCTTAGATACATAGCCG/C/JTGTATACAGAGGTTCTCAACCTCAACACTATTGAC TTTTGGGCTGGATAGTTCTGTGTGGGGTTTGTCTGTGCACTGTAG
WI-20096	21 T C ---	---	GGTTTGGGGCATTTATCT/CJGATAGAGACTGGCACAAAGCTTTGGGCTAAGGACACCCGCCCCCC ACCCTCATCTAGAAACAATCTCTCGCCAGACTTG
WI-19591b	156 C A ---	---	TGGGGCAATTTTAACAAACCCAGGCAAAATATCACATATACCTGAATATAAGGTAACCTCAAGCCATG AGTATAAGATTAAAGCAGTTACTTTATTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTGCCC CTTAGGGTGGGAGCTCTCC/CJAJCTACCACTCCCAAGGATCATTTTGGGAGAAAAA GTGCTCTAICTGGCTAGTGTGTTAICTAGGGATTGCACCTTCTACACGG
WI-19591a	45 T A ---	---	TGGGGCAATTTTAACAAACCCAGGCAAAATATCACATATACCTGAATATAAGGTAACCTCAAGC CATGAGTATAAGATTAAAGCAGTTACTTTATTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTG GCCCCTTAGGTGGGAGCTCTCCCCCTACCCTCCCAAGGATCATTTTGGGAGAAAAA GTGCTCTATCTGGCTAGTGTGTTAICTAGGGATTGCACCTTCTACACGG
WI-20310	125 G A ---	---	TCCTCAGCTCTGTCATCCTTGTCTGAGGGTCTGTGTTACGGCCCCCTCCAGGCATGGTTCTTCAT TTAGGTAGGAACAAAGGCCAAAGAACATACAAAGCCAGCTCTAGAGGCTCCAG/JATCAGAA CTGGACCCCTTAACCTACAAAGGAATCTTGGATGAATATTTTAGCGGGCTTCAGGAGCAGGTAGC AGAGCCAAAGTGACACTCAGGCCATCTCTCCCAATGTCCTCCCGGGG
WI-20860	224 G A ---	---	CTCTCCCTAAGGAGCCTTGGCTTGCAGCCCCATTACAGAGGATGGAAGTCACAAGACAATGAGT GGAGCCTCATGCCCTCCCATGAGGAAGCCCTTAGTATTGCTGACATCTGCCCTTATCCTGCTCCT CCCCAGTCTGTCACACTTGGCAAGCAGAGTGGTGGCAGACCCAGCCTTGAGAGCTCTTTAGAAC GGAAGGAAGGGGGTCA/TJG/AJGGTATGGCTTCTGGCTCTCTGGCTT
WI-19359a	39 T C ---	---	GACGTGGACAAAAGGAGGTTTAAATGAATACCTTTGTTTTG/T/CJCATGTTCAAAAAAGAGTATTAA ATTTGTGACTGCATCTGTGAATGAAGACACTCAAAAAGCCATGTTTCCAACTAGGTTAATAATAA GGCTATTTGCCACCCACTCTCGGGCATGCTGCAATATCTGGGCTCAAGTGGGAGGCCACGTG GGAACAAGGCCTCAGAAAAACAAGGACATGCAGCCTCCCTGAGCCAGTTCT



WI-19766b	93 A G ---	---			TGGCCTCAATGACTGGTACATTGGAGAAAGCTGTGCAGCAGCATCCTTTCTGTGGTGGCAGGGCAGGAGATGAACCATAGGAGCCAAAGTC[A/G]GACAAACAGAAAGGACACACCAAGCCTGAAACCCCTC
WI-19766a	31 G A ---	---			CGGACAACAGCAGAGATTACCAGCTGAGGGATGTCCCTGGAGGTTCTGACCCATGAGAGGCCCCCTCACCTCCTTACCCCTCCTACCACCAAGCTCTCCGGCAGTCATGGACTTAT
WI-20512d	126 C G ---	---			TGGCCTCAATGACTGGTACATTGGAGAAGCT[G/A]TGACGACGATCCTTTCTGTGGTGGCAGGGCAGGATGAACCATAGGAGCCAAAGTCAGACAAACAGAAAGGACACCAAGCCTGAAACCCCTC
WI-20512c	59 T G ---	---			CGGACAACAGCAGAGTTACCAGCTGAGGGATGTCCCTGGAGGTTCTGACCCATGAGAGGCCCCCTCACCTCCTTACCCCTCCTCTCTACCAACCAAGCTCTCCGGCAGTCATGGACTTAT
WI-19599	230 C G ---	---			CTTCTCTGTTGGCTTGCATTGTGCGATTGGAAAAACCACTTGGAAAGGGACTTTCCTGCAAACCTTAAAGACTGGTTAAATTACAGGGCCTAGGAAGTCAGTGGAGCCCTTGACTGA[C/G]AAAGC
WI-20679	82 T C ---	---			TTAGAAAGGAAGTGAATTGCTTCTTTGAATATGGATTAGGGCGGGCGTGGTGGGCTCACGCTTATTAATCCAGGCACGTTGGGGAGGGCCAAACGCGGGTGGGATCACCTGA
WI-19909a	29 T C ---	---			CTTCTCTGTTGGCTTGCATTGTGCGATTGGAAAAACCACTTGGAAAGGGACTT[G/J]TCCTGCAAAACCTTAAAGACTGGTTAAATTACAGGGCCTAGGAAGTCAGTGGAGCCCTTGACTGACAAAGC
WI-20341	221 G C ---	---			TTAGAAAGGAAGTGAATTGCTTCTTTGAATATGGATTAGGGCGGGCGTGGTGGGCTCACGCTTATTAATCCAGGCACGTTGGGGAGGGCCAAACGCGGGTGGGATCACCTGA
					GGGCTTAAATTTCCCTCTGTTGGGACTGGTCTCCAGTTTACAGCAAAAGGATCGCACCTTTTCCATAACCCCTTCTACATTGGAAGAGCAGACACCTTGATACAGAATGGCTCCGTGAAGTCTTTTAAAGG
					GACAAAGGTAATCACAGCTAACAAAAACGTGATGTGGCTCACACGTAACCAACACCTCTTTTCA
					GAACAGAGAGCGTTAAAGTAAAGGGCA[C/G]TTCCAAGAGTAACACTGCTA
					TGTTGAAATAAAAAATTTCCATGGTCTTAATTGAACGTGATGTACTTTCTTTTAGAATATCCTTTT
					TTCAATTAATAAT[C/J]CTAAACCACTCTATGTGTTCAACCTTCTGTTTAACTAAGATATGGGT
					TTTTGGAAGGCCACAAAGTCACCACTCCATGAAGTGGCGAATTGGTCTGTTTTGGAAAAGCTCTC
					CAGGGTGTCTCCAGAAA
					CCAGAAATAAGCCTGAATATCTCTTT[C/J]TTAAAAATAAATTTTCTCTTTGCTCTCCAA
					GTAATCTTAAATGAACCTGTTCTAGTCTATTTTAACTAGGCAATTATAACACTACCTAGGCGGG
					TTTTTCTTTATACCTTGTCTGTACTGTGGAAATCAACTAA
					TTGAGAGGCTGAGAGAAGGCTGTTGAGACATTGTAATAGTCTTAGGGGCATGAGACATTAGGAAG
					GCCACAATTATGAGTAATGAAATGTGGAGGCTGATGAGAAGCTACTGCTCCCAATTTGTTAGCAGGA
					GGCAGGAAAGTGATCTGGGCTCTGGCAGCAAAAGCGTGTGGTAAATTTGGGTGACGTCATGC
					ATCCCCCATGCATTGGTTT[G/C]ATGTCTCCAGTGAGCTGTGGGCAAGTCT

WI-20113	60 T C ---	---	TTCTGGTACATGGTAAGTGCCTCAGTATTACTGAGTGAATGAGCAAGACCTGAAATACTGT/CJGGA AACAGTAAAAGCAAAATACCACACAATAGGAGGAATATTTTCAGACATAGGATATTTAAACAT CACTCAAACTACTGGAGCATGATTGAGCAATAAATCTATTCCATAAACAGGTAGATAAATGTCACA GCTTTAAATATAGTTAAGTACAGTTGATCCTCGTTATTCATGGATTCCGTATT
WI-20895	107 G C ---	---	TGATGGAAAGTACAAAGGCTCTGAAAGAACAGAGTAACAAGAGCAGCGCAGTGCAGCGTGTGGC CACTTCCACAGGAGCAAACTTGACTTCATTAAAGGCAAA[G/C]CTTTACTCTGTACTTTTCCCTC CCACATAGTTTAAACCAATAGAAAGGCATTCTATTCTCACACTACTGCTCTCTAAGGTCCTAGGAA TATACTGGTACTATAGGCAACAGATGCA
WI-20721	72 T C ---	---	CCTGCAATCACAAAAGTGGAACCTAGTTGATATTTTGAAATCATACTTGATTTAACACCTTCAGAAA TTCTAT/CJAAAACACTAGCAACTTCCTTTATCAGA
WI-19415c	161 A G ---	---	CTGGATTTTAATAATTTCTGGCCTAATAACCAATGTAATCAATAAAATTTGGTCAATATCTCCACCTC ATTCTGCTAACATGTTTTCGAAGATTCCTTAAGTAAGGTATTGACGACTGAGACTAGTCCGGCAAA GTCATGAGACCTTAGCTGATCTCAT/GJAGTCCACCTCATGAAGGAGATGATTCACACATCTCAA GCTAAGGTATAAAGTGTGGACATACAAAGGCTTACAAGTTTACACTTCCTG
WI-19348c	103 C T ---	---	GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGTAGCAAGTACGATGGGCCATGCACCTTCTG GCGGTCGATGAAGAGACTGTTGGTCATGGCGTG/CJGTCTTCTCCAGGCTCATATGGATGTCCT CGAGTTGCACAGGGAAGTCTGCTGCTGTAGAAAGCTTCTCC
WI-19348b	98 G A ---	---	GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGTAGCAAGTACGATGGGCCATGCACCTTCTG GCGGTCGATGAAGAGACTGTTGGTCATGGC/GJAGTGACGCTCTTCCAGGCTCATATGGATGTCCT CGAGTTGCACAGGGAAGTCTGCTGCTGTAGAAAGCTTCTCC
WI-19635	98 A T ---	---	ATTAGTTCGTGGGCCACATTCAAAGCCATCCACACAAGCTCTTGAGGCCATTGTAACACAATG TTAAAAGGTACAGTAAAATACAGTATTAT/ATJATCTTATTGTAGCACGGCTGTGAGGCTCAT GTTGAATGAAGCATCCTTAGGCAGCACGTGACTGCATGCAGATATGTGCTGAAAGAAGCTTTGCCCTT T
WI-19641a	46 A G ---	---	TCCAAATTTTCAGAAACATGTTCCATGTTTATTGTGATAAGCACTAG/GJATTATAGTCTCATGTTT TTAATTTATGAATAACGCTGATTTCATTTGATTTTGATTTACAGAAGATGTCAGGGCTATCTCATTC AGTTATTAATAAATGGATCAGAGTAGTAAGTCAAGAATAAGTGCATAATGTGGTTTAAATTTTAAAA AATACTCAGAATGAGTAGTATTTTAAATTTTAAATTCACCCACCTTG
WI-19642b	52 C A ---	---	ATATAGAGTACCATCCATGGTTCAAGCATGGCTGGACACATTTATCCCCCT/CJAJGGGTAAACCAG GACTATTGCATGAGCATCTTTAATACGTATTTTGATGGACACAAGTTTTCATGCTATTA
WI-19673b	180 C T ---	---	TCTGCCATGATCACATTGTGATGAAGAACATGATGGTCACTAGTAGGTAACTTTCTGTGTCATTGCCT TACTCTAGTGAGGTGCTAGTGGATTTACCTACCCCTGCTTTTGATCACCAGTGAATCTAATAGT GAAAAGGCCAAATGATGTCTCAGTATCACTGTGAAAACATTTTTC/CJCTTGACCCAGCTGAAAGAA TCTTGAGGAGCCTGAAGGCTTCAAGGTCCACACGTCAAAAAACACAGCCC

WI-19673a	35 G A ---	---	TCTGCCATGATCACATTGTGATGAAGAACATGATG[A]TCACTAGTAGGTAACTTTCTGTGTCATTG CCTTACTCTCAGTGAGGTGCTAGTGGATTACCTACCCCTGCTTTGTCATCACCACCTGTAAATCTAAT AGTGAAGAGGCAATGATGTCAGTATCACTGTGAAACATTTTCCCTTGGACCAGCTGAAAGAA TCTTGAGGAGCCTGAAGGCTCAAGGTCCACACGTCAAAAAACACAGCCC
WI-19724	35 A G ---	---	TTTATTGGGAAACAAAGGATTGTAATTTGGGTAA[A/G]CTGAGTCACGGTGGCCCTGAGTAGTGTC CTAGAAAGCAAAACAGAGATTITGGTTTTCCTT
WI-19307	196 T C ---	---	TCCTCTCCCCCAACTAGATGGTATTGATCACTCTGCCCAAAATGGTACCCCTTCAGCAAGAACTG CAAGCCCTCTTGATTGCCCTTCATGAGAAATGGTGGCTTGGATGGAGTGACATTCTTGCTGT GGTGAATGCAAGAAAGGAAACAGGCAATGATTCCATAGAGGCCCTTAAAGAGACCCG[T/C]TGG AAATGGGCCATGGTCTAATTTGGTGTGAAATAAACTAACCTCTTTGGCTG
WI-19269	85 A T ---	---	CTTCCCTCATCCCTCTTCCACCACACCATCCCGGAACAAGTGTCTCCAGGATCCCTGCCCACTGGC CATTTTGGAGTGTCC[A/T]TTGGGTAGCAATGTGGAAACCAACAGGCCCTTTGTGGAGAAATGG AGGGGTTGAGGGAGTCCAGGAGGGCTTATTGAGGGCTTTGCCACTTGTCTATAGCGGAGCTCG ATCTCTCATCATCTGGACAGGTGGAAGCGAATCTTCCCGGGCGTAGGCA
WI-19946	122 C T ---	---	CAATGGACTGAATGAGTGCCTGCTGGGTGGGTGGGCACACACACCTTCAATACACGTCAAGGTG CTTCCAGTTTAGAAAACAGAAATCTGCATCTCAGCCTGAGACGCACAGAGAGT[C/T]CTTCCCTG ACCCAGACGCACTCACGAGCCAGGTCCTGTTTCAAACTGCATTAACTGCGCCAGAGAGTTAC CGTAGGCATCTTTAATAACTAACTCCAGCAAAATGTGGGTACGGTTACTAA
WI-19956	141 G A ---	---	CACAGCATGGTGAATAGCATCAGATTGAATGAAAAGTTTGTAAATGCAACCATAAATAATTATA ATAATATACATCAAGTAACCTTACAGCACACATTTTATAGGCCCAAGTTTGGATCTGTCTGGACCT CAATGT[G/A]CTCTCGGAGAAGCAGCCACGTTAGCAGCAGATACCTTACAGCTTGTCTACTCAA GTGATGGCCCAACAGAAAGCTTCTGAACCTCCTCTGGGAGGTAGCTGACAAG
WI-19076	40 G A ---	---	TTGGTTGGATACCTTGTGGAATAAAAAAGCAGTTTAA[TG/A]GTATCAAAATACCTTTTAAAAA GTATCTAGCACAAAGATTTTCTGTAAACTAGATTATGTTGTAACCTTTTCTAAATCTTGTAGGAG TGTGGTTGTTAAGAACTAGAGCTTATCTTATCCAAATCTATCTGCGCTCCTGAAAAAACTGCAGA AAGGCACTTGAAGCTGTTCTTTAAGATATGGGATTCTTTTATCTT
WI-20218	26 T C ---	---	CCACACACTCTGGTTTATAAGCTAT[C/J]AGGACAGAGCAGAGATGGAAGTGAACCAAGGGTAG AAAAAACATAAATTGGAGGGGAACAGTGGGATGCAGAAAGAAATGACAAACAGCCACATGTGCCCCA GTCAAAATACTTTTAGTCCCTGCAGCAGAAAGATGCCAACCAAGTCTCTATACTGCGTGGGGATCCTGCC ATGGATGCAGGAGAAAAA
WI-20295g	154 T G ---	---	CAACCTTTTGCAGAGGGGACGTGAATTTCTGATGAAAAGTTATCTTACCAAGTTTAAATCATAATTG GGAAATCTCTTTTAAATATCTCAGGCTTGTATGGGAGGGGCTGGGCTCTACCCCTTTCTCTTCCCA TCCAGTCTATTGCCAGAT[G/C]CAGAGAAAGCGGGGAAGCCAGCTCTCCAGCATAGCCACTGTGG GTCCGGCTTCACCTTCTGTGACCTCTCTCATGCTGGGACTTGTCTTTCGGGG

WI-20361a	192	G A ---	---	CTGGAGTGCTGACCTAAGTGACATTTTTTAAATGCCAAATACAGTAATCTCCAAGCTTTTAAATGGCTTATGCAAGATGACAGAATATGTGAATCTGATTGTCCAGAGTTACACTCTGCACCTCCAAAGCTACAACAGTGCCACAGCTGAGAGGTTCCCTATACCTCTACTACTGTGACAAATTTAGC[G/A]ATCCTTCAAATGGGAAATTCCTAACTACAGAGACAATGGGTCTCTACAGTAGGCCCG
WI-20572	75	A G ---	---	GAGCCAAACCCAAACAAATAAACACAGAACTCTTTTGTAACTAAGTCATACCTACTTTCTTCTTCAGAAAT[G/G]TCATAAAACATCATCTTTACAACATGGAGAGGAGGTAGGCCATAATTGTTCAAAATTCATCTTTCTCAAAATTTAAAATTTGTTTAAATCCCAAAGGTGCCTATTGAATCTTCAAAAATAAACTGCCTATCAGGTATCATACCTGCAAAATGCTTCTAATATCTCTTGATTAT
WI-20588	133	G A ---	---	CATGACAAAAGACAAAAGATCAAGGAGTAACATAAATATAAGTTGAATAAATAGTATACAGCAATCTTCACTTTTTAAAGAAAATGTGAGATCCTTTGTGGTTTTTATTTCCTTAAGTACAAAATGCTAAAC[G/A]GGAGCCGAGCTCTCCGCATTCAGG
WI-20593	79	A G ---	---	TGACCTCATACTGGGTTCTGGTTAGAACACAGCCACTAGAACAACTCCAGTCTTTTTCAGTCTGTTGCTGTACTTCAG[G/G]TTAAAATCTGGGAATGAGCATGCAGCAATGCTCCACCAGATGAGGAAGAAAAGCTGTAAAAGGAACCTCAGGATGTTGTTAGGAAGGGGAGTGATGCCAGGCTTCACCAGACTATCCAGAAGCCATTCATGGGTATTGGTCTGCATACTGTGAGACACTGAGCT
WI-19765	57	T C ---	---	TTCTTTGCCAAGCCTGTTCTTCAAGTTATTCAGAACTGGGTGTATACCTTGTCCTCAIT/G]ATGATCTTGTCCTGCTGCTTTTAGTTAGCAAGGTGTATGAATACTTTAAGTTTTGTTTGTCTTTTCCCTCGTGGTATCAGTGAAATACTGATCTATTCTCTGGCTAGGGTCAATTTACAAAATGCCATGGAACCTGAGCAAAAGGCCACGTGGGATAAAATCACTACCATCGACGCCACCAGTATT
WI-19066f	239	A G ---	---	TGACAAGGGGAGAGAGGAAATTTCTACTCATTCGAAGGAAATCCTCACTTAAGCTTCAGTGAGCCACAAAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAAATCTCTACGAGGAACCTGGCATATGTTCTTGGTGGTCAACCTGTAGCTGAATTAATCTCTCCATATCCGGATGCTCAATTACAGTACCATTCAGGCAAACTTTTCTTAAACGCCCTTCAC TAGTTTCTTTTA
WI-19066g	184	C T ---	---	TGACAAGGGGAGAGAGGAAATTTCTACTCATTCGAAGGAAATCCTCACTTAAGCTTCAGTGAGCCACAAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAAATCTCTACGAGGAACCTGGCATATGTTCTTGGTGGTCAACCTGTAGCTGAATTAATCTCTCCATATTC]TGGATGCTCAATTACAGTACCATTCAGGCAAACTTTTCTTAAACGCCCTTCAC TAGTTTCTTTTA
WI-19066f	148	T C ---	---	TGACAAGGGGAGAGAGGAAATTTCTACTCATTCGAAGGAAATCCTCACTTAAGCTTCAGTGAGCCACAAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAAATCTCTACGAGGAACCTGGCATATGTTCTTGGG]T/C]TGGTCACCCGTGAGCTGAATTAATCTCTCCATATTCGGGATGCTCAATTACAGTACCATTCAGGCAAACTTTTCTTAAACGCCCTTCAC TAGTTTCTTTTA

WI-19066e	147 G C ---	---	TGACAAGGGAGAGAAGGAAATTTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCATTAAACCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAACCTGG CATATGTTCTTGCGCTTGGTCAACCCTGAGTGAATTAATCTCTCCATATCCGGATGCTCAATTAC AGTACCATTCAGGCAACCTTTCTTAAACGCCCTTCAGTAGTTCTTTTAA
WI-19066c	100 G A ---	---	TGACAAGGGAGAGAAGGAAATTTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCATTAAACCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAAC TGGCATATGTTCTTGCGTTGGTCAACCCTGAGTGAATTAATCTCTCCATATCCGGATGCTCAATTAC AGTACCATTCAGGCAACCTTTCTTAAACGCCCTTCAGTAGTTCTTTTAA
WI-19066b	87 C T ---	---	TGACAAGGGAGAGAAGGAAATTTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCATTAAACCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAAC TGGCATATGTTCTTGCGTTGGTCAACCCTGAGTGAATTAATCTCTCCATATCCGGATGCTCAATTAC AGTACCATTCAGGCAACCTTTCTTAAACGCCCTTCAGTAGTTCTTTTAA
WI-19066a	72 C T ---	---	TGACAAGGGAGAGAAGGAAATTTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCACTTAAACCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAAC TGGCATATGTTCTTGCGTTGGTCAACCCTGAGTGAATTAATCTCTCCATATCCGGATGCTCAATTAC AGTACCATTCAGGCAACCTTTCTTAAACGCCCTTCAGTAGTTCTTTTAA
WI-20660	105 G C ---	---	TTTACAGCGAGTTTTCCCGTCTCAATAAGTATGAATCTAAATAGATTAGGTGAAAAGAAAATGTG TGCTAAATAAAATCTCCCTTTTGAATGATATTTGTCGCTTAAAGGGAAGCATTAAATATTA CAGACATATTTACAAAGTTCTGAACATGAGTGATCCATTACTGTTTCTGTACAAGATAGAACAAA AAGCTATCCACCCGCCCAAAAATACTGTTTAAACAACACTATGTTTTAAGA
WI-18768	120 C T ---	---	CTGTGCCAGCTTCTCTTTGGCCCTGCTCCAGATGGCGGTCTCTGGCAGCCTCCCTCAGTCTCC TCCACCCGCTCTTCTTCCAGCCTGCCTGCATGGATGTGCAACCTTGGTC/TJTCGGCTCCATCGCC TTGAAAGCTCTGAA
WI-19087	37 A G ---	---	TTCCCCAGGGTCTGTATTGCAAGCTCAAAATGTAGTATTTAACTTCTAGTTGCTCTTGCTTTG GTCTTCTTCCAAATGATGCTTACTACAGAAAGCAAAATCAGACACAAATTAGAGAAGCCTTTTCCATAAA GTGTAATTTTAAATGGCTGCAAAACCGGCAACCTGTAACTGCCCTTTTAAATGGCATGACAAGGTGTGC AGTGGCCCCATCCAGCATGTGTGTCTCTATCTTGCACTACCTGCTCC
WI-18790	49 A T ---	---	GAAAGCCAGAGATTAGCCCCGCTTCCGCTATCTGCAACCAAGGACAGAA/TJGCAATGGACAAGGGA TGAGCTTTACAAAGATGATGCACCTTTGGAGATCAGAAAAATTCATATTTAAGCAAAAGTGATACAAACA CAGTGATTTGGGAATGCCT
WI-18987	35 G A ---	---	AGGAGGCTGTCCAGGAGTCTGCCAGCAGCCTC[G/A]GTGGCCAAAGCCAGACACTCACCCACCTT CCCCAGTGGCCCCGTGGATCCTGGTCTAGGCTGGACACAGGATTCAGAAAGACACAGGCTGCACA GAAAGAGCCAGATGGACCTGAGTGTGGTGCACAGCCCCCTACACTAAGGCTGAGAGGGCTCAGGAA AGTCA

WI-18919	26 C T ---			---	TGGATGAAACCACAGGGATTCCGGA[C]GCCAGACCCCATTTTTACTTCACCTTTCTCTACAGTG TTGTTTTGTGTTGTTTTTATTTTTTATACITTTGGCCATACCACAGAGCTAGATTGCCCAGGTCT GGGCTGAATAA
WI- 18741c	64 G A ---			---	CTTCTGGTCAAGGCTTTGGACATCTCTCAGTCATCAGACAGAGTATCTCTGCTCTAGACCTC[G/A] CTGGAGTTCAAGCTTGAATTAATTATATGCAAGTTAAATTTACAAGCCTGGATGAGGCTACTGA
WI- 18741b	38 G C ---			---	CTTCTGGTCAAGGCTTTGGACATCTCTCAGTCATC[A/G]CACAGAGTATCTCTGCTCTAGACCTCG CTGGAGTTCAAGCTTGAATTAATTATATGCAAGTTAAATTTACAAGCCTGGATGAGGCTACTGA
WI- 18741a	23 T G ---			---	CTTCTGGTCAAGGCTTTGGACAT/GJCTCTCAGTCATCAGACAGAGTATCTCTGCTCTAGACCTCG CTGGAGTTCAAGCTTGAATTAATTATATGCAAGTTAAATTTACAAGCCTGGATGAGGCTACTGA
WI- 19179a	170 G A ---			---	TCAGAAGCAGACATGGCATCTGTTCCCTGCTTGGTTGTTGTTGTTACCTTTCACGAGACCTGAATT TTAGAAATGCCCAGTCTGCCAGAGTGAGTGAGTAAATCTCCCTTCAGGTAAGATAGGCTATCTG AACACTGCTGAGTGATTATAAACATATCAACCA[G/A]TAGCATTAAACCAATTTATTTCTGTCCTT AGTGCTGAAGATGCTACCAGTTTCTGTGTACAGTAAGGCAGCATGCT
WI-19212	46 T A ---			---	CCAAGTTGCATCCATGTTTGATTTCTGATGAGACTAGAGTGACAG[T/A]GTTTTCAGAACCCAAATGT OCTCAGGTAGTTTGGAGCATCTCTATGAGATGGGATTTATGCAGATGGCTATGGAATAATGCAGTGC ATAATTAAACACATTATCAAAGTCCTCTTACAAATTTATTTCCGCGAGCATGTCAGCTAAGTAGACCCA ATGGGGAGAGAAAATGCCTGCTTCTTCCCTCTTTCTGCACTGCCATAI
WI-19183	210 G C ---			---	CTGTTGAAGGCTTCTCAGGCAAACTCCAGCTTAAAGCCCTAGACAGGTAAGAACACACATTGGATG GCAGCATGGGTTTCTCCCATTTTATGGGCATGAAATATGTGGTTTAGAATAAGGAACAAGCATTTATT CCTTTGCCAACAGCCTCACTCTAAGAGGCTTTTGTGCTGAGTCAAGCAACACTTGCCTGCTCTGCCOC CTTGGAG[G/C]TGCAATTTGACCTGCTCCTCACTGGTAAGGIGACTTGGTGGC
WI- 20014b	214 T C ---			---	TTGAAATCCCAGTCTCCTGGCCCCCAGGCAGGGTCTGTCAACATAGAATGTCTTCTCTACTGGGGTC GTTCTGGCTTTTGTAGAAACTGGCTGAGATGTTCTCCCTGTCCATTACCATTCGATGTTCTTT TGTTCAGAGCAATGTTCTTGATTTCTGAAACTGGAACTGAACCACTTGCCTTCTCTCTAGTCACC AAGCATACT[T/C]TCTGGCTCCCCAAGTACTTAAATGTTCTCATCTGT
WI-19041	198 T C ---			---	GTCCTCCCAGAGTCTTCTGCACCCCGCCCTGCTCGCTGTAAAGGGGATACAGAGAAGCTCCCCG TCTCTGCATCCCTTCCCAGGGGGTGCCCTTAGTTTGGACATGCTGGGTAGCAGGACTCCAGGGCGTG CACGGTGAGCAGATGAGGCCCCAAGCTCATCACACAGGGGGCCATCCTTCTCAATACAGGC[T/C]G CCCTTGCAGTCCCTATTTCAAATAAAATTAGTGTGCTCTGCTGCTGT
WI-19135	20 G A ---			---	CAGTTACCCTGCTTTGCCTC[G/A]AAAGTGTCAATTTGTAATTTTAGTATTAACCTGTAAAAAGT GTCTGTAGGTACGTTTTATTTATATAAGGACAGACCAAAAAATCAACCTATCAAAGCTTCAAAAACT TTGGGAAAAGGTGGGATTAAGTACAAGCACATTTGGCTTACAGTAAATGAAGTGAATTTTATTAAC GCTTTTGCCCATATAAAATGCTGATATTTACTGGAAACCTAGCCAGCTTCAC

WI-19236	54 G A ---	---	TACACAGAGGGTGCACCTGGACTCTGAGGGTTGGGTGGAAGGGGAAAGG[G/A]GATGGAGAC CTGCTCCCAGCTCTTCTGTGAGCCGGTTACATGGGAACAGGGTTAACATCTGTGTTAGGGAGGT CACCTTACCTTTTTCATAGGGGAAGAGTGCACACTCTCTGGCTATCTCAGGGGAATGGGAAAG AATCTTCAAGGGCAAGAACTCGTGGAGGATGCTGTTGTATGTAATACT
WI-19144	222 G C ---	---	GTGCCAGTCTCCAGAAAGCAAGGACTGCCCTTCATTACGCCCTGCTGACCTCCAGCCCTTCTAAGG CTCAGCCCAAGGACTCTGTGGCTGCCAGCTTGTGAGCTATCTATATATTCATTATAGCCAA ACAGGAGACCCCTTTGCAGGACTTGCACACAGGAGGCTGTAGCCAGGAACCCCTCTTCTCCCTGGT CTGGCTCTGCTGGAGCGG[G/C]JGGGAACCAACACCTTCAGTCTGGTG
WI-19139b	110 C A ---	---	CCCGTCTAAGGGGAGAAAGCTAATGTTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGAC GGCAGATGCCCTGACAGAGAGTGGGTTGGCAGACAACACACTAG[C/A]ATTTTCACGGGTGTGGGCAC ATGGGTGTGGCACCTGGACGTGTGCAGCATGTGGCGTCTGTGTGAAGCCACCGTCTCTCTTTGG GGGCGCGAGATCTAGCATCTCTGAAATCCTGGCTGTCGAGGCTTTGAAG
WI-19139a	66 C T ---	---	CCCGTCTAAGGGGAGAAAGCTAATGTTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGA[ CT]GGCAGATGCCCTGACAGAGAGTGGGTTGGCAGACAACACACTAGCATTTTCACGGGTGTGGGCAC ATGGGTGTGGCACCTGGACGTGTGCAGCATGTGGCGTCTGTGTGAAGCCACCGTCTCTCTTTGG GGGCGCGAGATCTAGCATCTCTGAAATCCTGGCTGTCGAGGCTTTGAAG
WI-18910	112 T C ---	---	GGCTGGGACCTTTAGGAAAGTGAATGCAGGTGAGAAGAACCTAAACATGAAAGGAAAGGTGCCT CATCCAGCAACCTGTCTTGTGGTGATGATCACTGTGCTGTG[C/G]GGCTCATGGCAGAGCATT CAGTGCCACGGTTTAGG
WI-19235	173 A G ---	---	TTCAGGAGGTGGAGTTCGTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACA CGAATGTCTCTGTAGCTTCTCTTCACTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCTCTGT CACTCATGCCCTTGCCTAATTGTTCACAATGGTGGAA[G/G]GCTTCATGTAATATGATCAGGACCCACC TCCAGTCTTCTGAAAGTGTGACAGTGTCCAGCCGGTCTGCGAGCACTA
WI-19222	179 C T ---	---	CGTTTCCCTAACTCACCAGTTAGTTGGGATGATTTCTGTTGTTGTTGATCCCATTTCTAA CTTGGAAATTGAGCCCTATGTTTCTGTAGGTGAGTGTGGGTTTTTCCCCCACCAGGAAGT GGCAGATCCCTCCTCTCCCTAAAGGAGACTGTGCGGAAC[C/T]TTTCACACCTCTTTCTCAGGGAC GGGCGAGGTGTGTGTGGTACACTGACGTGTCCAGAAGCAGCATT
WI-19117	134 A G ---	---	AAATAATGCAACGCAGGAGGAGAGAAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTG ATCTGTTTTACAGGAACAACCTTGGCTTGAATTTACACAGTGAGACTGTACATAATTGCATGAA A[A/G]TAGCTATTTTTTCCTAAGACATTTTTCATTTCATGAATATTTCAAGTTTTTCATACTGTACA CATTTCTTAAACACATGATACCAGCAGCAACTGAAATGAATGCCGAATTG



WI-19134c	263 C T ---			CTCCTGTTGCTGACCTGACAGGGTGACACAGGCCCTTTCACACTCTGTCTCCTCTATCTTCTCTGGGTAGA TGCCCTGGTGTAGGGCTGAGTACTGAATGGTCTTCCATCCCAAGAGGGGGTGCAGCCAGGGTCTAG GCCCTTCAGAGCCAGGGCTAGAGGATGACAGGTGGCTAGAGCCAGCTGCACATATCTTTTCAGAGCAC TTCATCCACTTGTCTCCTCTACCTCGGCACCCCTGGGTGGGAAAGGG
WI-19134a	162 T C ---			CTCCTGTTGCTGACCTGACAGGGTGACACAGGCCCTTTCACACTCTGTCTCCTCTATCTTCTCTGGGTAGA TGCCCTGGTGTAGGGCTGAGTACTGAATGGTCTTCCATCCCAAGAGGGGGTGCAGCCAGGGTCTAG GCCCTTCAGAGCCAGGGCTAGAGGATGACAGGTGGCTAGAGCCAGCTGCACATATCTTTTCAGAG CACTTCATCCACTTGTCTCCTCTACCTCGGCACCCCTGGGTGGGAA
WI-19224	112 C T ---			GGTTTCACCACTCTTCCAGGGAACCTCGATGAAGTGTTCACACAAAATGAGCGAGTGAACCAAGA AGAGGATGACATTAGATCCAGGAGATACAAACAGAGGAGATAATCTTCAGGATGCCCTGTGAAGA AAGATCCCTGGATCCAGGATGATTATAGGACAAGTTGTTCAATCCAGCAGGCCAGAGACTTCC AGGAAACTCATTCAGGAGGTGAAAATGATGGATGACTCTCTCAAGATGAAAA
WI-19201	179 T C ---			GCAGCTCCTAAGGACCCTGGCCATTAGCTCTTGCTTTTGATGGCATTCTTCCACCTTGTCTTCTC CTTTGCTCCTCTGTGTAGTGGCAGGTATGACAACTCATCCAGTGGAAACACAGCCTCACACTGCC CTCCGCCCCCCACACTTTGCCCTGAGGTGCACCGAAGGACTTCJTGCGGGGATAAAAATTCAAAAA GTGTGATGTGCTGCTCAGAAGGTGAGACTCCATGTCTGCCTTGGCCTCAA
WI-19034	45 T C ---			GAAATGGCTCCACTCAGAGCTACCCCGGTGATGAGGATAGGGGAAITCJACTTCTATTACATTAAG GCAACAGCAGTTAGTAAAGGTTTTACAGTGTCTGCTGTTTGAAGTGAATATAAATTTTTTG CTAGCCCATGATCAATCGACTTCTATTGTTTGATATACACTTCAGCATTTAAGTCTGTCTGCAATTGAC ATTTGCTACTTATAAACCCTAGTCCCTAAGTCTTCTTATGCTGTCTATATA
WI-19102	25 C G ---			TGTTCTGAGTCACGCTGAGGAGAGTCJGCTTCACTCAGGAGTTCATGCTGAGATGATCATGAGTTCA TGCGACGTATATTTCTTTGGAACAGAAATGAAGCAGAGGAACTCTTAATACTTAAATCGTTCT TGATTAGTATCGTGAGTTGAAAAGCTAGAACTCCTGTAAAGTTTTGAACCTCAAGGGAGAGGTAT AGTGAATGAGTGTGAGCATCGGGCTTTGCAGTCCCATAGAACAGAAATGGG
WI-18548b	65 A G ---			AAAGGAGGGGAGAACTTTTTACATAAATGCCCTTGATCATCTCCAGTCCCTCCTGAGGAAJA/ GJAAAAGCATCTNTCAAGCTTTTGCCAACTTTGGCTGC
WI-18548a	62 G A ---			AAAGGAGGGGAGAACTTTTTACATAAATGCCCTTGATCATCTCCAGTCCCTCCTGAGGAGG[G/A/JA AAAAAAGCATCTNTCAAGCTTTTGCCAACTTTGGCTGC
WI-18700	97 T C ---			GGCAGCAGCTTTTTTAATTTGAACACTTTCTTCTTGAGGACACACCTTCAGTACAGTTAACAAATGGT TACACCTGAAATCTGCTGAGAGCAGAGCTTCJJAAGATCCACAATTGCAAAGGCCACTGCTGGCTCA CTTCTCACA
WI-18501	121 C T ---			CAGAGGGAAGATTTATTGAGTCAGCCACAGAGGAACAGAGAAACACAGACAAAGGAGGTTCTGTGT GCATGGAGGAATCAGGGCGCCGNACAGCTGAACCTCGCGCAGGACAGAGGGGGCTGJGGACAGCA GCGCATGCCACAAACATTCA



WI-18017	87 C A ---			ACAAAGAAAATGGAAATAGGTTTGGGAAAACCTTATCTGCGATGTACAAAAGTAATCCCCGTAGATAA GGAGAGGCAACCCCGGAACA[C/A]ACTGCTGGATAAATCGTTCAATTAATAATATATCTCTTTGCAT CAGAGCTGGTGGAAAATCAT
WI-18148b	101 A G ---			TTATTGCGTTCCTTCGATAACCTCTCTTTGGGACTATGAGATCATCACCAGATGTGAAAACGAAAGCA GTGATTCAGAAACCCNTCGATTCTGAATATCCC[A/G]TGGCGGCATATGCAAGGAAGATGA
WI-18254	64 T C ---			TATACGGATCATGTATTTGTGTGACCACCACTACCACAGTCAATTTGTAGAGCAGTTAAATCAC[T/C] JGCCAAAATCCCTCTTGCTTCTGTAGTCAGTCTCTCCCAACCCAGGNACTTGGCAACCTGTTT TCCGTCTCTAGACATTT
WI-18265b	117 C A ---			CAATGGGTGGACTGAGTGATAAAACGCATATTGAGAACAAGACGGCCTTCTGGCCNCTCTGCGTCC AAGGCTGTAAAGGTCTCAGGATTGCTGCTAAGTGAGGCCATGAACCTGGCTG[C/A]GTTTTCAACCTTTC CTTGGGTGGTTTCTTCAG
WI-18295	40 C T ---			ACCACACATTTGTTGAGAGCCTATTGTGGAGAACAAACAG[C/T]TTGGGAAGTAAAGTTGATTACT TCCTCTCCAAGGATGATATGTTTAAATGAATCCCTTTCCTTTCAGCTTCAATCTCATAATGCCAAA
WI-18459b	64 T C ---			GGGCAAGAGACAGAGATTTAATTGAATAAAACTCCAGGCTGTGACACGGTGGGAGACACAAA[T/ C]GAGTAATTAACAACATAATATTTANATGACAGTGCAATTAATAACGTCTGGTAAAGCCAGAG GGGAGAGGGGCTTTC
WI-22585	56 A G ---			TTTATTTTAAATTTGCATCTGAGATAATAAAATTTATCTGACAAGTGAACAATG[A/G]CAGAAAGC AGCAGTGAAAGTTTCGGAGAGGCAGGTATCCTTTCATTTTGGCACAGCTGTATATAGATTGA
WI-21155	36 A G ---			GGGCTGTGGAGTAACAGAACTTGATGGAAAATTGGC[A/G]TCTGTGTAGAATGATTTCTAAAGCTTTC AGACAAATGGCAGA
STS-F02766b	88 G A ---			GCCTTGCTCTTTGCTGCTCAGAGGCCTCAGATGGATCGCAGCAACTTCTTTTGAACCTTTTAT TTTCCTGGCAGGAAGAAG[A/G]GGATCCAGCAGTGAGATCAGGCAAGTCTGTGTTGCACAGACAG GGAAACAGGC
WI-19888a	98 C T ---			GGCAGATTCAACCCATAACAGAGAAATAACTCCTTATTGGAAACAAGGTTTATTTTGATATGATG AAAAATTTTGGAACTAGAAAGTAGCAGTGA[C/T]TGGACAACGTTGTAAAGATATTAATGCCACT GAACGTTCATTTAAATGGTAAATTCATGTTATGTTGATTTTACCTCAATTAAGAATGAACATGT CTTATAATTGTAAATTACATGAGANCAATTTATGTTGGAAGTGAACACAAG
WI-21485	82 C T ---			TGAGACCATCCTCCTCAACAAAGAATCAGTCAGTTTCAGCACCTAATTTTCCACACTGAAGTCTACG CAATTTTCATGCAG[A/C]TGTGTGCACACAGTACAGTGCACAAATCCAGAGGGCAACACATTTGTAATT CATATCATCCGTTTCCAAA
WI-20601a	125 T C ---			TCAGAAATGCTTTCCTGCTCCCAACCAAGAAATTTAATGAATGCNCTTACAATTGAGATGACTT GAAGTTAAAGAAAGGTACCTTCCCTGGAGGTGCATGACAGGATTAGTCTCTCTGTT[C/C]TTGGT GCAAGTTTGAACCAGTATTATGTACCATTTGATCAGAGCATCTGTTTCCCTGTCAGATCCCCACTAG

WI- 20561b	94 T C ---	---	CGTTGCTTATTAAAGATGGCTGTTTATAAGTATAAAGCAGTTTGAGCAACACTGATTGTGCATTATTG TACTTCAGATGAAAAATCCTTACATGTC[G]GAATCAATGTCCTTTTAAAAATTCAGATAAAAGAATTT NCAATTTAGGAGACATACAATTGTAA
WI- 20561a	25 A G ---	---	CGTTGCTTATTAAAGATGGCTGTTT[A/G]TAAGTATAAAGCAGTTTGAGCAACACTGATTGTGCATTTA TTGTACTTCAGATGAAAAATCCTTACATGTGGAATCAATGTCCTTTTAAAAATTCAGATAAAAGAATTT NCAATTTAGGAGACATACAATTGTAA
WI- 20116e	69 T A ---	---	GCTTTCATTTCTGTCAACCCACCCCTGTCCACAGTTATGTTGGCCTTCAATATATGCGTTAGAACAT AIT/AJATAAATCTATATCATATATTATACACACAACACATCTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCGAGATAA
WI- 20116c	59 T A ---	---	GCTTTCATTTCTGTCAACCCACCCCTGTCCACAGTTATGTTGGCCTTCAATATATGCGGT/ATAGAA CATATATAAATCTATATCATATATTATACACACAACACATCTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCGAGATAA
WI- 20116a	22 C G ---	---	GCTTTCATTTCTGTCAACCCAC[C/G]CTGTCCACAGTTATGTTGGCCTTCAATATATGCGGTTAGAA CATATATAAATCTATATCATATATTATACACACAACACATCTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCGAGATAA
WI- 20466b	133 G A ---	---	AAAGATTGCACTCCTGGGACACAGTTTGGAAAAACACTATTATAAGTTGCACATATTACAAACAG NTCCAAATGGTGAAACTGGTATTCTAAGATGAAAGCTTAATGAACATAATGAAGTGAATAAACGC[ G/A]JGTGAACATAATGTTTAAAAAGTTAGAGCTTGCTCAAGTCAGTACAGCTCTTAAAGATAATAAT ACAGTAACACTACTTTTTATTCTTTGCTCTTTTATCCCTTTTCAGGTTTCGATT
WI-21444	39 A G ---	---	CTGGGCAAGCAAGTAAACCATTTTAAAGAAATACTCTCAAC[G/A]AGTCTTTTTTTATGGGGTATTTCA GTTGTTAACAAAGTTAAAAATACTTATTGGAACATAATCTTTTGTATTATTTCGAGGAAGAAGAAATCT ATAAGATTGACTTACTCATTTGTTGACTGGTTTTTGAAGCCTTACTGGGG
WI- 21034b	148 T C ---	---	AGAATGGACAATGATGCAGATGATTTGTGAGCAATTTGATGAGAAAGTGGTATTAGAAGGATACAG CATAAATTTAATTGTAACATGCTTATCTAGCTAACCTAATCTGTTCTGTAGAAATTACTGGTCATGG GAGATTGGATAGA[T/C]GGCCTAACCTATCTCAATTTTAAAGTAATGTGAGCAA
WI- 22091c	205 G A ---	---	GGCGTGATTTGATGCAATGTCCAAACCAGTCAAGCTATCATTTGAAATCCAAATATTTCCCAGTAGAG ACATGCAGAGCAATGTCAATGTAAACATACAAAGCATATTACCTCCCCCTTAAGTGACTCATAATTC ATTACTTGTGCTGTAGCTTTTAAAGGTTTAAAAATGTGTAGCATTAAGTGGTATTACTTGAGGGCA ACA[G/A]AATACGGCTTAAACACACACTAAATCATGAGGCTCAGGGATTG

WI-21805a	45 A T ---	---	CAACTGCTCTGAGGCTTTCACTAGCTGATTATATATCCCTATATTAT/TA/AAAAAAAAATCTATAGTCTG CAGTCTTTGACATACTTCTCAAGGGTGGATATGTTGGTAATGCAGATCCCATCAATATGTGTGGTT TTGTTGCTTTTGTAGCTTAAGTCTGTTTAGNAATCCAGAGGAATATGATTGAGGCCAGAGTTA CATTGGTTCATAAAATTCGAACAGTTGAAGGCTGTTTGTGTAATTGCTG
WI-21778b	155 T C ---	---	AAAAATCCATAATTATGAACCCCAAGTTACAGAGAAAGTTCTGTAACCTTTTATTGAATTATTGAC TCTGCCCGCGTGTGTCGTTCTGCTTCAACTCCAGTCTGTCATATGCCCTGTGTAGTGGGTCCCCAG GTCTGGGCTTCTGAGGTCTT/CJGGTAGAAGGAGGGCAGGTGGT
WI-20907	241 A C ---	---	TGAGTCAGTGGTCAGATGGGGCAGTTGCGCTCAGCTGCAGTCCCTGACTCCGGAAACACTGTGCCTCT CAATGATCTAGAGCTCATCTTGGGCGTACATGAGGGCAGTTGTTCTAGTACCCATTAGCCC ATGGCTCTCAAGCCCAATTCACACTGGGAAAAACACACCCCTCACAAGATGCCTATCCATTGAGTTG ATACAGGTTTTAGTAGCTAGAACTAAAAACAATTTTA/CJAATTATCTA
WI-21449b	222 C T ---	---	AACAGCAGCAGTCACTTCCAAATGCAAAAAAATTAACAATTTTAGAATAAAATTATAATGTTTA TAATGCGGTGAGAAAGANTTGAAGGTACAACAGATCAAAATCAGCAGCACTGGAGGGCTGGAG AAGCCAAAGCCCACTGGTCAGGGGTCCAAGCTGACAAGTCCCAACCTGAGAGGTCTCCACACCC AAATCATACCCCTCAGCTTCCCA/CJTJGACAGAGCCAGTGTCTCTGGGTTAG
WI-21558a	157 G A ---	---	GGTTACAAGGAAGCCTGTGGACAGGCGAGNTGGGTGGAACCACTCCAGCTGGAACCTGCCCTC CCATCCCCCTTAGCGCTTCTTGGCTTCCGGCTGATTTCTTCGACAGCAGTCTTGCCAGGGCAAGG AGCTGTGGTGGGGGCGAGTATG/AJAGCCAGGGACTCCCTTCCACAGATGAGGCCTAGGGCTGCAA AAGGGCCCGTGAAAGAGAGATGTGGTCAAGGCTTATGGGTCTCTCCACC
WI-22187b	178 G A ---	---	TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGGCCGTGGCTAGCAGAGCTCATGGNGACCA GTCTGGGCCTGACCAATGGGTGATTACATTTAAAAACCAACCAACCAACCAACCAATACCAAGA ACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTG/G/AJAAATTTTCATGAAAAATTTCC CCTAAACCATAAACAAAAACTGTCTCTTACCCCAAAAGTGTGGAGGAAAG
WI-22187a	110 C A ---	---	TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGGCCGTGGCTAGCAGAGCTCATGGNGACCA GTCTGGGCCTGACCAATGGGTGATTACATTTAAAAACCAAA[C/A]CAAAACAAAAACAAATACCA AGAACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTGGAAATTTTCATGAAAAATTTCC CCTAAACCATAAACAAAAACTGTCTCTTACCCCAAAAGTGTGGAGGAAAG
WI-21609b	146 G A ---	---	TCATGAATATGCAGCCTCCATAATCTTCTCCCTTGTAAACAAACGTGCAGTCCGTTCAACAAGCTGTAAA AACAAGCCCCAAACCAAGACATCAAGAGGCAAGAGCAGTGGCAGTGAGAGGGAGCCTGTAAAG GATGTTTCAAAG[G/AJAGGGTCCCGCTATGTGGCCACTGGATGTAGGCAGTGAGCTGAGTCCAGGC TTTCGGTCTGGGAAGTGGCAGAGGCTGAGACANTGGCCAAAGAGGAGTTGGAG

WI-21609a	42 C T ---	---	TCATGAATATGCAGCCTCCATAATCTTCTCCCTTGTAACAA[C/T]GTGAGTCGCTTCACAAGCTGT AAAAACAAGCCCAACCCAAAGACATCACAAGAGGCAAGAGCAGTGGCAGTGAGAAAGGAGCCCTGTA AAGGATGTTTCAAGGAGGGTCCCGGCTATGTGGCCACTGGATGTAGGCAGTGAGTCCAGGC TTTCGGTCTGGGAAGTGGCAGAGGCTGAGACANTGGCCAAAGAGGAGTTGGAG
WI-22512a	104 T G ---	---	ACATCCGAGCCAGTTTTTCCATATTGCTCCACTGCCTAAATCCCTGGTGCCTCCCTAGGGCTTCA GGGTAAGCCCTGACATCATGGTCTTTGTGATCTGTGACCTCACCCATGTCTCCACCTNAGTTCC CACATTTCCCCACAGTCTAAGGGCAGGCAGCTACACTTGGACTGCA
WI-21028b	139 A G ---	---	ATCGGCAAGCTACAGCCTTAAATCTGAGCTCCTCAAGTGCACAATTTCTGTCCCTTTTAAGGGCTCA CAACACTAAAGATTTACATGAAGGGTCTGTGATTGATTGAGCAATCTAGGGGATATGTGACAGGG TTTC[AVG]TGCAGTGGTACAGAACACACAGGGAGTTTACAAATTTTTTATACAATGCTTGGGAAT CTACGG
WI-21028a	121 A C ---	---	ATCGGCAAGCTACAGCCTTAAATCTGAGCTCCTCAAGTGCACAATTTCTGTCCCTTTTAAGGGCTCA CAACACTAAAGATTTACATGAAGGGTCTGTGATTGATTGAGCAATCTAGGGG[AVC]TATGTGACAG GGGTTTCATGCACTGGTACAGAACACACAGGGAGTTTACAAATTTTTTATACAATGCTTGGGAATC TACGG
WI-18829d	58 A G ---	---	ACAACATGCCTGTTACAGGGGGGAAAAATCCTAGGNAATACTTATGTGTACTTCTTG[AVG]TTTCA TCATACAAGACAAAGCACAAGACACCCATGCCCTCTGAGGAACATTGGACCATGCACCCCTTGAAA AA
WI-18829b	35 T A ---	---	ACAACATGCCTGTTACAGGGGGGAAAAATCCTAGGTT[AA]AATAACTTATGTGTACTTCTTGATTTC TCATACAAGACAAAGCACAAGACACCCATGCCCTCTGAGGAACATTGGACCATGCACCCCTTGAAA AA
WI-20964	87 G A ---	---	AGCCAACTCAAGGCCAAAAAATTTCTTAATATAGTTATTATGCGAGGGGAGGGGAAGCAAGGA GCACAGGTAGTCCACAGAATA[G/AV]GACACAAAGAAACCTCAAGCTGTGAGGTCAATTTGTAAITAA AAGAATACTAAGATTAGATGAACACACACTCAGAAATCTCTAGGAGAGCTGAAAAAAGAAAGAAC AGATGTTAACAAAAAATAAAGGCTGCTGGGGAACCTGAGTCCATGTTAAGCTTG
WI-20059a	59 T A ---	---	CTCTGAACCTAAAGGGCCGTGAAGGCATGATTGGTTTTGGCACACAGAGTGGATAACCAT/AAACAT TGGCTGGAATGAGGTGGTCAGGAAAAATAAANTGCACAAATCTAACACCATGTTGAAATCATGTCTGA GTTCTGGAGAAAGTTAAAGTGTAAATAATTACAAAGACTGACATGCAACTCTTTACCTTACATTATT CATCTACAGACTATTTTCTCCCTTAGGAGATGAGGAGTATGGGCCCTTAGGT
WI-22130b	165 C T ---	---	TGTTTTGAGGGCTGTAGCAGACTACATAATGAGCGGTGAAAGCGGCTGCCCTCCCTCTCCTGACAC CAGCAAGGGGGAGGCACCATACCGGCCCTGCCCATCATGCATCCAATGATTACTAGCAGCTAGGAA GCCAACGGAANAGGACCCCGGCGCTTGC[CTG]TGTGTTTAAATCCAGGTTAAGCTATACACGTTTAA ATACATGTCGGAGGTTACATGGTCTCATGCAGTCCCTGTGATGGGAATGAC

WI-21661	117	G C ---				GCTAGTCTCCACCCCTTTTAAATGTACTCTAGGTACAAAATAAACATTATACACATATAAGATCAGT CTTTCCAACTTTAGAAATGTATAAATAAGAAATGACATTTTAAATAAAATAAG/CJTTTAGTCACAGTC ACACAAAACACTACCTTCTAAGGAAAACTGTCCAGTGAAGCCGTTAAATTTGTGCTTCAGCTATGAAG GA
WI-21980a	25	T C ---				TCAGTTTAAACACATTCATCAAGGA/T/CJAGATTAAITTAATGTCAGGTGAGCATAAAAAGGGAGATTAA TAAACCAGAAATGTGTTTTCTGGGAACCAAGTTTCAAGTGACTCAGGATAAGTTTTTATTAAATTCAT GGGTGAAGCCCTGGGATAAAG
WI-21636	71	A G ---				TGCTTGATTAAATGTGTTTACATTATCCTATTTCACAGATGGAACAGAAAATACCAGCTTTTTT AAA/A/GJTAGCAATATCTATTATTAATAAATAATTGAAATAACACCATAATAATATCACTAAGGA AGTAATCTAATTGTGTTGATTTTCAGAGGGGAGAAAACATTACCTCTAGAGCTGAGGCTATTGTGC TCATGCAAACTCCAATCTGAAGGTGGTAGAACTAGGAAGGGACAGGGATTTC
WI-22457a	112	G A ---				TTGCTATAATTTCCTTAAAAATGCAAAAGAGTACATCACAGCAGAGTATAGCCAATCACTCATTAGA CAACAGTAAACATACCTGGACACGGTTTCAGGCATGAAGGATACA/G/A/CAGTTAATTAACATAAG GAACAGAGTCCCTGCTATTCCTGAAGCATAGGATGGGAAACAGTAATGCAGATTAATACCTGGGGCC AAAACCCACTGAACCTACCCAGCTGAAACACTGAAGGATAGTGGTAAGGA
WI-21524b	97	C T ---				GCCGTGAGGGTTAGCGTATAATGAAAAGGTGTAATGCTGATGACGACCTTCGCGTCATCTTAT AATGGTTAATAACAGCATTCCTGTCTACCCGATGCTTCTCTGCAATGGACTATTTGCC CAGTTGCAACAGGGCTAAGATTGTGCGCACTATGACAATGAGTTGTTGATTGTTGGAGTTGCGGTGTC CTGTGAGAAAGATTCTTGACTTTCTCCAAAGTTACTTCCTCCAGGGGATG
WI-21524a	35	A C ---				GCCGTGAGGGTTAGCGTATAATGAAAAGGTGTAATGCTGATGACGACCTTCGCGTCATCT TATAATGGTTAATAACAGCATTCCTGTCTACCCGATGCTTCTCTGCAATGGACTATTTGCC CAGTTGCAACAGGGCTAAGATTGTGCGCACTATGACAATGAGTTGTTGATTGTTGGAGTTGCGGTGTC CTGTGAGAAAGATTCTTGACTTTCTCCAAAGTTACTTCCTCCAGGGGATG
WI-22652a	32	G T ---				TTACCTTCCAAACCCAGGCCACTTTGGAGAAAG/G/TJAAGAGAATGCTATTAAATCAATAAGCCAAGAC AATAGGGACTACCTGGGGTAGACCACCAAGATGGGCAGTCAACCATACCATCATTCCTGCCACAGAACC TTTGACATGCTGCOCTCCCTACTCCGCACTCACCTGTCTAATTGGGACCTGAAGCTTCAGCATCCCTT CTTAGGG
WI-21703d	197	A G ---				CAACAGGCTCATGGAAACAGAGCCTAGGGATCCAGGAGCATAGGAGGTGGTGGTGGCAGGGCTC TGCATCCCCCTTTCTCAGCACAGCACCATCTTCAACCTCCTGGGAAAGCAGCATTTGGAGCCTACACCA CTTGCTCTTTCTCACCAGGGTAAGAAATGCAGGTAATTCAGAGGGGAGTGAGTCTGGGAA/A/G/G TGGGCAGAGCACAGCTAGGGGCAAGGACTTAAGGGAACITGTGGGGGAAGAG

WI-21703c	134 A G ---	---	CAACAGGCTCATGGAACAGAGCCTAGGGATCCAGGAGCATAGGAGGTGGTGGTGGCGAGGGCTC TGCATCCCCCTTCCCTCAGCACAGCACCATCTTCAACCCTCCTGGGAAAGAGCATTTGGAGCCTACACQ A/GJCTTGTCCTTTCTCACCAGGGTAAGAAATGCAGGTATTTGCAGAGGGGAGTGAGTCTGGGAAAG TGGGCAGAGCAGAGCTAGGGCAAGGACTTAAGGGAACCTTGTGGGGAAGAG
WI-22663c	139 G A ---	---	CCCTTGTCAGTCTGTGCTCGGCTTCTCACTGCAGTGGCAGGTGAGCCGGCGCTCGCTAATCTTATTC CCAGTCTCGGTGAACATGGGCTCAGTCTCTCCGGCTCAGTGTGGGTTCACCTGGTGCACCTTACAG GC[G/A]GAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAAATCCGTGTTGAATGTGGGT
WI-22663b	55 C T ---	---	CCCTTGTCAGTCTGTGCTCGGCTTCTCACTGCAGTGGCAGGTGAGCCGGCGCTC/TGCTAATCTTA TTCCAGTCTCGGTGAACATGGGCTCAGTCTCTCCGGCTCAGTGTGGGTTCACCTGGTGCACCTTAC AGCGGAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAAATCCGTGTTGAATGTGGGT
WI-22663a	38 C T ---	---	CCCTTGTCAGTCTGTGCTCGGCTTCTCACTGCAGTGGCAGGTGAGCCGGCGCTCGCTAATCTTA TTCCAGTCTCGGTGAACATGGGCTCAGTCTCTCCGGCTCAGTGTGGGTTCACCTGGTGCACCTTAC AGCGGAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAAATCCGTGTTGAATGTGGGT
WI-22668	99 A G ---	---	TCTTTATCTGCTGCCTGCCTGAGTATTTCTGGGAATCTCAAGGATTTGAGGGAGCCCTTGGGATT CCAACTTAACAAATAGTTTCTGTAAATTTA/GJTTCTAGTCCATTTAGATTGTGTAATGATCTAA ATGGNGTAACCAATTAATCAAAAGTATAACAGCATTTAAGTCAGCTTTTCGAAGAAACTTTTATT
WI-22631a	52 T C ---	---	AAGATATAGTGGCAGGACAAGATTGGTCACGAAATCCTGGCTTCAGTTCGAT/CJAGCACCATTTT CAAGTTTAGGCAAGGATTTAACCCTCAGGCTCATTTTCTTTGTAAATTTGTGATAATGGACC TATGTACCAATCATAGGTACTTGGACAAATCAACTGAAATTTT
WI-20258	157 G T ---	---	AATCCACACTTTCACGGAGGGGACCAGCCTGCCATGTGTCCTCCAGGCTCACAGCAGCGGGGCTAC TCTGCTGGTGGTTTGGTGGCAGGTGGAGATGGTGACGGCGCATTTGGAACCGTAAGGCATGACAACG GGAGGCCCGGGGTGTTTCAG[G/T]CGCGTTGACGAGGTGCATGGCTGGCAGGGCGGCTCTACAGA AGGAGGGAGCGCAATTCACAGCCTCTTGACGTAGTTTCCGGGGAAGTACC
WI-22714	212 C A ---	---	ACTACACATATGCTGATTTTCAACAGTAAAAATAACATTTTACATTTGTAGAGAAAATCTAGGGTCT ACTAAATAATCTAGTACTTGTTCACCTCTCCTGTAACCTGACAGGAGTGTGGGAAACGAAAGT CTGAAAAGGATTCAAAAGGGGGCTAGGATTTGCCACAGATCCTGTAAAGGAAAGGATGAGGTGAGCTT ACCAACCCCA[C/A]TGAGTAGGGGCCAAACATCCTTAACAAGCTAGTTGCT
WI-22734a	44 G A ---	---	TGGGGCTACTTTAGATGGGATGGCGTCAGGGTCTGGGAAGGCCT[G/A]TCTAGAAGACATTACCCA AATGATGAGAGGCAGCCAGTCGTCGAAGCCATAGTTTGGATGGCGAGACTTTTCGGCAGAGGAAAT AGCAAGTGCAAGGGCCTGAGGGAGAAATGAACTTGGGCTTGCTCTACAGGGTGAAGGGCGCGGT NTGGCTGAGGTTTAGTGGATG

WI-22724	117	A G ---				TGATATGATGCTGAGATTGCTTCCAAATATGCCTAGGAAGGGAAGAGTGTITAGAGATATAGGA CAAATCAAGATTGTCAAAATGTATAGTAAGTGTAAAGCTTGCTAAGGGT[A/G]GTTATTCTATTTT TGGGATATGTTTGGGAATT
WI-22750	48	G A ---				TGTAACCTGTGTTTTCTGAAAGTTGAGGGAAGCTGAGGCAGCTAAT[G/A]GGCTCATACAAAGGT TTGGAAGACCCATTCTGACTACCTAAAGGAGAGTCAGCATTCTGACCATTCTGACTGTGCT
WI- 22775a	60	A G ---				TGCTGTTCTTTAGTTCATGACGTTTATCACAATGTGCTACTGTTTCCATTGTTTACATC[A/G]TAGTA GGAAAGGGGAAAATAAACTCCCTAAGGGCAGCAATAATTTCTGTCTTTGAATCCTTCAATTCAGGCCAAA TATTTGTTGAGCACCAAGGGCCAGATGGGAAGTATGAGGTATGAGGTGTTGGGAGOCAGGAAAGGAAG GGT
WI-22808	143	C T ---				CTTAGCTAATGAAACTGGCTATGTGGACTATGATAGACCAGAAAGCTACCCAAAGTCTCTGAGGGAG CCTAGTCCTCCTAAATGCAGACAATGTACCCATGACAAGGGCTACAGCTTGGCTTAGCAACCCAGGA GGATGAAGA[C/T]AGCAAACTGATTAGAGAGTAGGTATAAGAACCCAGGGAGAGTGGGGTCCAAAT ATC
WI-21016	207	G A ---				TCTCTGCTGTCTTGAGCCCTCATCCCAACCCCTCCAAAGCCCTCATGCCACACACCCGTGTCCACATT CCCCATCCTCCCTGTCTGCTCCCATCTCAAGTCCAAATCCAAAGCCAGAGCCCTGGCAGCTTTTCTGTG GGAGACAGCATGAAAAGGGAGTGGAGATGGCAGAGATGGGTGGAGCCAGTGCCTGTGGGTG CT[G/A]TTGGCGTGGTGAATGTGGGGGCCAATCCTGAGGCCAGAGGTTCA
WI-21031	31	C T ---				TTGAACACCTGACCTGACCTGTGACATGTGG[C/T]CTCTGTGTCCTCCCATTTGTCTCCACGGTGGCACA TCTTCATCTTTGTTATATATCTGCAGGAACACTCAGTCTCTTCAGCAGCCGAGAAAACACACACA
WI-21314	122	A T ---				CCATATCCAGTCTTCTTTGAAGCTTCTATTGACTTTTAGGGTTCAGTTATTATATCCTTTATCACTAT GACTTTTCATTTGATTTTATTTGTTTCTTCCATTCTCTGTCAAACTTTTC[A/T]TTTTGTTATAA ACTGTTTCTAACTTCACCTAATCTCTATCTGTATTNCTTGTAGTCCCTGAACITCTTTTAGAGG
WI-21186	95	G A ---				AGCGAGCATCAGAAATCACCTAGAGGGTTGACTAAAACAGACTCTGGACCCCAACCCAGAGCTTCT GATTGAGTAGGCTGAGGTGGGCTTAC[G/A]AATTAGTATTTGGAAGACCTTCTTAAGTGTGCAG ATGCTGCTTGTCCCGGGGAACACACTTTGAGAACTATTGTTCTAAATGTTCTCTCTCTCTTTTAA GGAGAGACAGGAATTCAGAGAAACTGCTAATTTAAGCATAATGTATTGAAT
WI- 21187a	94	A G ---				CCACGATAACTATAAAAGCAGAAAATTAGCTTTGAAAATCAAAATAACATAATTTAGTAACACACATT CATTTTATAAACACACATAAAGACACC[A/G]GGNTCTCAGTAATGCTCTAGTCCAGGGGTTCTCAA AGTATGGCTTCAGACAAGCCCCATTTCATCACCTAGGGGAATTGCTAAATGCAGATTCTCAGGCC CTACCTACTGATCTACTGAATCAGAAACTCTGAGGGTGAGACCAAGCAACCTGT

WI-21190	39 T C ---	---	TTTTCCACATACCAATGCACCTGTTTGTATAAACTATT[C]GTGGGTAAGCCCTCTTTGGAGAC CAGTGACATAGACATGATCCCATTTATATTAAACAAATAATTATTAATAATCTGTACTATTACTGC TTTAGTTATCTAGTGTATTGAGAAAGGAGAGTCAGCATAGTTATTTCCATGTATAATAAAGCTT AACACA
WI-19937d	186 G A ---	---	ACCATGTGCATTTATTGGCATAGGAATAGTGACCAAGAAATGCAGCANCTAAACTTTGGAAGGAAA GAACTATTGCACAACCAACAAACATTGTACATATCTGATTTAGACAAGCAAAAGCACTTCATGTTGTCT GTAAAGGTGTTCTATGGCAACAGTGATGACATGGTGTTCTTCAGCAAGTC[G/A]TCCAAACCTTC CAAAAGAAGCAGTCATTGAAAAATGCTGACTTATGCAATTCGCTCAGGAAGAA
WI-19937c	185 C T ---	---	ACCATGTGCATTTATTGGCATAGGAATAGTGACCAAGAAATGCAGCANCTAAACTTTGGAAGGAAA GAACTATTGCACAACCAACAAACATTGTACATATCTGATTTAGACAAGCAAAAGCACTTCATGTTGTCT GTAAAGGTGTTCTATGGCAACAGTGATGACATGGTGTTCTTCAGCAAGTC[G/T]GTCCAAACCTTC CAAAAGAAGCAGTCATTGAAAAATGCTGACTTATGCAATTCGCTCAGGAAGAA
WI-21117b	227 C T ---	---	GAAACGGGGTGCTAAACAAAGAAAAGTCTCAGATCCCAGTGAATACTGTTACAGTTTCACAGGCTC TCTCCAGAAAATGCATATGTACCAATTTGCATGTACAAATTCAGAGCCTTCAAATACATTCCTGGG TCCAATCACATACCTCAGGTTCAGACTCCTAGCTCCCAATATTCCTACAGTTCTGAAGANTTAGCAGT CCTCTCATTTCTACAGTCTGTATT[C/T]TCTACTGAATCTTGGTGGGAG
WI-21122a	42 C T ---	---	TCACTTTGTATCATAATCCCCTGTAAAAGCTAAAGTTATTCAT[C/T]TTAACAGGAACCTCTGTTTTCC TTATTCAAATGTACAAGCCTGACGCGTTACTGTACATAATGCTAGCAGGAGACAACCTGGAATACT AAACAAATACTGGAATTCACATTACAGACAGACGAAACCAACATGGGATGCCACACATAACTTCCT TTGAGGTTTCACAGAGCCTATTGTTGGGTTGCT
WI-21254	53 A G ---	---	CAGTTTGGTACAGGAAGGGCCCATGAATGTGGGGGGAACCTATCCACAGGAG[A/G]CAAGGAGAAAG CTGTTCTCTGG
WI-21054	23 G T ---	---	AAGGAACTGCATGGGTACAAAT[G/T]TCCAATTCATACTTAACAAGGTGGGAAACGGGTCAATTCT TGGCCTGCTCCAGAACAAAGGGGAGTCTATGCACTCCTG
WI-21059b	181 T C ---	---	GGGACAGGGTAACACCATAGCAATATCCGTTATCAGCCTTATCTTCCCAGTGGCCTGGCTGAA CTACAGCTGCCAGCATTTCTGGGCTTGCAATTTCCCAGCTTCGACATCTTAATTTCAAGCTGAAA AATCCTGGGAAAGAGACATACCTCACTGAAGTCATTTCTCTATT[C/T]ATTGTAGCCAGGGCAAAA TGAGATTAGGGATTAGCTCAGCCAGAGTTAGGGTGACTATCCTTGCCTAAT
WI-21059a	63 C T ---	---	GGGACCAGGGTAACACCATAGCAATATCCGTTATCAGCCTTATCTTCCCAGTGGCCTGG[C/T]T GAACTACAGCTGCCAGCATTTCTGGGCTTGCAATTTCCCAGCTTCGACATCTTAATTTCAAGCTG AAAAATCCTGGGAAAGAGACATACCTCACTGAAGTCATTTCTCTATTCTATTGTAGCCAGGGCAAAA TGAGATTAGGGATTAGCTCAGCCAGAGTTAGGGTGACTATCCTTGCCTAAT



WI-20442	37	T C ---				TCCACGTGAAGGAAGAAAAAANGGGGGGGCTT/CJTAAGGTGGCACAATTTTAAAGAAAT ACCATCCATTTTCTCAGTCTAATCTGAATCCATACATTTAAACAAAAAGTCAAGTGATGAGACGAA CA
WI-21235	43	T C ---				GTGACAAGAGGTGAAGCAAGGGACAAGGGGCAGGGCAGTCT/CJCTCGGGCCGATGTTCCAGGG CAAGCTACGTA
WI-22012a	57	T C ---				ATCAGAACTGCAATCTGCACATGAAAAGACCTGGGGGGAATGCCTACATCTGGAATTT/CJCATTAAC ATCAACGTTAAATTTTGCCGACCAGTCTTTCATTGCTGATCACTTTTGATAATGACAGATCCAAACAT GAAACTCCTGAAGCAAAATGAATATTTACCTTGCTTTCATGCAAAATTTAGGGACCAAACTCAAAGG TTTCATCCATGCTGGGACACCAGATCTAAGGAATTTGACAGGGATCTTCT
WI-21149a	167	G A ---				AGGACCTGCTCTCACACGTTCCCTCACCCCCACCAGCTTTTGGCAAAGATAGTTGACTAAATACCACT AAATAGTGGCTTTTTTTTTTAAACAATGACCTTATTTATCTTTTAACTTTAAGTGAGTCTTATATA CAGACCTGCCAACTGGAAGCTTTTACAC[G/A]TGTCTCAGAAATGCGGCAGTATTGCACAATGGTT TGGGCGAGGTTCTGTGGTTAAACATGGGATGGAACCCAGGCTCTACCTG
WI-21376b	188	A G ---				GGTGTCAACTTGGAAATAATGGTTTAAAAACAGGATAAGCATTAAAGAAAAACACTTTCAATGTGTC TTCCATTTGATGAATTTGTTTTCTCTCTTTATCCCCGCAAGTGGAGTTTCATGTCTCGGTGAACCA GACAGTGAATCTGTCCAGCCCAATCTGCAGCAATTAGGGATGAGTTCTC[A/G]GAAAGTGATTCT GAACTGAGCAGCACTCATGTCTGCATGGGAACCTCTGGGGAGAAGAGCCT
WI-21382d	125	C G ---				CCATTGCAGTCCAGAGATGAGAACTGGACCAGAGGCAATCATGAACAGACGGGAGTCAAGAGA AGGGTTTCTAAGATGGAGAAGTGGGGCGGGTTGGATCCAGTGGGATNTGGCTTCCC[C/G]AGGTT GCAACCCCAAGGAAGTCTCTGGAAGCAGCACCACTGCTGATGGGGAGCAGAGAGTGCCATCCTC AGTCAGGGTCCGAGTCAGGTCGAGGAGAGCTGCTGCTCCATAGTCTCGCAC
WI-21437a	201	G A ---				TCCCTGAGGTTGGAGTCTAGATAGTCCCCCTCCCTCAAAGAGGGACAAGGGTCAGGGGCAGAGC AAAAATCCAGTCTGCTTCAACCACGGAGACTGCCCTTGGGATGGAAAGTTTCTGGAGTCCCTCCATT CTATTCTGTGGGGCAGGAACATGCCAGGGCTGCTGGTAAATGGCAGGGTCACTTTACCAGGGC[G /A]CAGGCATAGTGTGGCCCTGNCCTGCCCCCTGGGGGCCACCCCTGGGAACAGT
WI-21202b	156	A C ---				CAAAATAGAAATCTTTGTGAGTGGATTGACTTAATTTTATTTCTGTATAAGCTAAATATGTT/CJ]GA GTTTTATGAACATGATTTTATAAAAAATGGTCAACAATATATTTTAAAGTTAACTGATTTATTGA AGGAGGAGAGAGTTGACCA[A/C]GTCTACATGCATAGACAGTCCCTAAAAGCGTATCTCAACATG A
WI-21202a	61	T C ---				CAAAATAGAAATCTTTGTGAGTGGATTGACTTAATTTTATTTCTGTATAAGCTAAATATGTT/CJ]GA TCTGTTTTATGAACATGATTTTATAAAAAATGGTCAACAATATATTTTAAAGTTAACTGATTTATTGA GGGAGGAGGAGAGATTGACCAAGTCTACATGCATAGACAGTCCCTAAAAGCGTATCTCAACATG A

WI-21627b	153 A G ---	---	GCATGAAAAGAACTCCAATCAGACTTTATTCAATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCAGCTTCCAGTATCAACTTGAGTACCTCATTATGGATAATTTATGCTAGGAATGACAA CAGTAAGGGCATTGCAAA[A/G]TCCAAAAGTCATCTAATATTAACCCATAATTTACATAAATTTGTAGG GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTGCTTA
WI-21627a	106 A G ---	---	GCATGAAAAGAACTCCAATCAGACTTTATTCAATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCAGCTTCCAGTATCAACTTGAGTACCTC[A/G]TATGGATAATTTATGCTAGGAATGA CAACAGTAAGGCATTGCAAAATCCAAAGTCATCTAATATTAACCCATAATTTACATAAATTTGTAGG GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTGCTTA
WI-21399a	75 C T ---	---	GGATTTAGTCCCAACTTGATCTCAAAATTCACCTTCTTGATGTAACAAGCTCATTCCTCTAAAGTT TCAGTTTC/TJTTCAACAGTAAGGAAAGGTTGGACCAGACATGTTGGACCGTAATTCCTTGGTAA CTGCCCTTCTGCATTTGTCTGAGGTTGTGTGTCCTAGGACTAGGTAGGATCTCTCTTGTCTTCTGCC TTACCTAGGCATAGTGCCTGATAGCAGGCTGAAGCCCAATTCATACTTGT
WI-20329a	68 G A ---	---	CGATGCTGCTAAGATAGGAGGTTAATCTTTTACATGGTGAGTGGTCACAGAGACAAGACATCAAT C[G/A]TCTGTTAGCAGCGAGAGAGACACTTTAAGTTGCCCAAGAGTACAAATCCCATCTATGAGAC AGCAGTCTGGCTTCTTAAAAACAGTAAACCATAAAGAAAGATTTAGAGGTTTCAGACATT AGGAACAANTGTGGCCAGAGATACACAGAGCCCTTGAAGGGAAAGGCCTCACT
WI-21249	155 T C ---	---	TTCTGGCATTCAAATGTACATGTAAATCCAATTTAACAGATCAAAATTTACACTAAGTTTCACT TAGTATCTAAGTATCCAATCACAATTTGTATCTAAGTTTCACTTTTAAAGAACATTATAAAGGTAATT AAAACCTAGGTGTACTT[A/C]ATGGAAC TAGTTTATTCNATTTAACTACTGTTCATTGCGTA AAGTATGTTGTCCCAATTTTCAGCTGTTTAAAGGAATTTATAAAACATTGAGA
WI-21504	147 C T ---	---	TGACACAGCATCAATTTTCATGAATACTTTGAAGGGCCATTAGAAAAATAAGAGCCAATTTGGGTC ATTTGAGAAACATTTTCAGCACAATTACAGTGGGGGCACGGCCGTTCCGGCTCCAGCTGGGTTTCCC AGATGCAACAAT[C/T]GGGGTTCTGGCTTCTCCACTGGTGGGGATGGGGATCGCGCTTCGGAGCTCT CAGGG
WI-21242	115 G A ---	---	CTGCACCAGGGAGGACAGCTGCTGGCAGGGACTAATAAACCTTCCACCTGGCCATGGTGGTGGTT CTCTATGGACCGAGGCCCTGAAACCGCGGGCAGGGAGGGGCAGAGAA[C/G/A]CACTAGCTTGGGGGTG GGCACCAGCTTCAGACCCCTT
WI-21475c	181 A G ---	---	TAGCCCTTCTGCCAACATCTGGCAATNTGAGGCTGGGTGGAGCTGGCCCTGATGTTGCCAGGAGTAG GATGCTGATGCTGCCAGAGAGTAGTGGGCTCCAAACCCAGGCTTCTCACTTGTCTTACTAAGCACAG CAGTCTGAAGCTTGGGACCTGGGCAGTGGCTTTTGGAGAAAGGC[A/G]AAAAAGCCACAGCAGCAAC ACTTAGGAGCAAGACCCCTTCCCGTCTCCACCCTATTTCCTCCCTGAAG

WI-21475b	117 A T ---			TAGCCCTTCTGCCAATCTGGCAATNTAGGCTGGGTGGACGTTGGCCTGATGTTGCCAGGAGTAG GATGCTGATGCTGCCAGAGTAGGTGGGCTCCAAACCCAGGCTTCTC[A/T]CTTGCTTACTAAGCA CAGCAGTCTGAAGCTTGGACCTGGCAGTGGCTCTTTGGAGAAAGGCAAAAAGCCACAGCAGCAAC ACTTAGGAGCAAGACCCCTCCCGTTCTCCACCCCTATTTCCTCCCTGAAG
WI-20893d	207 A G ---			TGTTTGTTCCAGCCACATCTTCTCCAAAGAAACCCACCCAGCCGTTGTCAGGCTTGCTGCAGGG CTGCTTCGGCGTTTAAAGTCTACTGAGGAATACAAATCATTGTCACGTAAGTTTCATCACCCTCC AGCGTCAGGCCAAACCTTCCGTGGACCTGGNAAACCTGCCATTTCTCTCTTTTACAATGCAGT TTC[A/G]ACATAACATTGGTAGAGTAAACAACAACCAAGCCTAAATG
WI-20893c	179 T C ---			TGTTTGTTCCAGCCACATCTTCTCCAAAGAAACCCACCCAGCCGTTGTCAGGCTTGCTGCAGGG CTGCTTCGGCGTTTAAAGTCTACTGAGGAATACAAATCATTGTCACGTAAGTTTCATCACCCTCC AGCGTCAGGCCAAACCTTCCGTGGACCTGGNAAACCTGCCAT/CJTTCCTCTCTTTTACAATGC AGTTTCAACATAACATTGGTAGAGTAAACAACAACCAAGCCTAAATG
WI-19941c	71 C G ---			GAGCTCAAGGGGAAGACCCCTTACCCAGATAGGACTAACTGGAGGGTGAAGGAAACAAGGTGAAA GGTAT[C/G]GGTCCTGGTGAGACAAAAGCAGGGGGCTGAGAACACAGAGCAAGGTGGTTGGAG GGACACAGCAGGGTGCAGGAAGGAGATGGGGACATTTCCCTATCCAGTGCATGCCCCTTAAAT AAACTGGGTACAGGACATTNTGGAAGGAGAACCAAGGACAGAACAAAGCGG
WI-21552b	166 C A ---			TGGGTACATGGACAGATGTATATGTTTATGGTTATATGAGATATTTGATACAGATACACAATGTG TAATAATTACTTCAGAGTAAATGCGATCTCCTCACCTCAAGCATTATCCATAGTTTACAAAGAA TCCAAGTATACCTTGATTATTTAAAATGTAC[A/A]AATTAATTTATTGAATTTAGTTACCCC ATTGTCTATCAAAATATCAATCTTATTCATTCCTTTGTAACCTATTATTGTGA
WI-21552a	66 G A ---			TGGGTACATGGACAGATGTATATGTTTATGGTTATATGAGATATTTGATACAGATACACAATGTG /A]TAATAATTACTTCAGAGTAAATGCGATCTCCTCACCTCAAGCATTATCCATAGTTTACAAAG AATCCAAGTATACCTTGATTATTTAAAATGTACAAATTAATTTATTGAATTTAGTTACCCCA TTGTGCTATCAAAATATCAATCTTATTCATTCCTTTGTAACCTATTATTGTGA
WI-21512	54 C G ---			TCCTCGTACTTCATGCTCCCTCCCTGCCCGAGAACCTTACAAAATATTTCTGT[C/G]TAGAGAGGGA AAGAGCTGGTGCCTGCTGTGAGGCAACGTCCAGGTCCGGGAAAGGCACCTCGTGTGTGTGATCTGC TCAGTATGGGAGGTCTCCACTCGCCCCACAGGACGCTCGGGGCCAGAGATGAGAATATGCTGTAA TCCAGTACAGGGGCTGCGTGGGGTCCCCAACAGCTCCTCTTTGGGGG
WI-21513b	192 G A ---			CACATAGTTTCTCAAGAAGAGGATGAACCTGAAAACCTCCTCTAAGGCAGGACAAAAGCAACTTCCATT ATTCTTAGTTTAGACCAGAACTTTTAAATTTATATCTCCTTTAATAACTGTCAAAATACACCAAATA CTTAGAGGAAAATATTCACAGTATACCAAAACATTTTAAGATAAAGAGGCAGTGTA[G/A]AGTAG TATCTCTACATACCACAGTATACAATGATGCCTTCTCCTGCAGGTTTAGGAAC

WI-21514b	133 C T ---	---	TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTTAGGACTGGTCATGAGCTGACAAGCATAG AGGCAAAGTATCTCAACATTACAAAACCCCAATCTTCAAGAAAGGAGCAGCATACCATGGAGC[C /TACAGGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCCTTATGCAGGAAATAAATGAGG ANITTAAGGCTCAGATGGGTTAAGGGTGATTTGTCAAGGGTGCATAAGGAACT
WI-21514a	100 A G ---	---	TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTTAGGACTGGTCATGAGCTGACAAGCATAG AGGCAAAGTATCTCAACATTACAAAACCCCAAG/GTCTTCAAGGAAAGGAGCAGCATACCATGGGA GCCACAGGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCCTTATGCAGGAAATAAATGAGG ANITTAAGGCTCAGATGGGTTAAGGGTGATTTGTCAAGGGTGCATAAGGAACT
WI-22020	27 C G ---	---	ATGAAACATGTTGCAGTGGGGATGAAT[C/G]TTATCATGATGCTAAGTGAATAAGCCAGACACAAAA AATCCAAATGTATCATTTCTACCTGTATGAGGGTACTT
WI-19576a	113 A G ---	---	TTTCATCGGTTCTTAATACAGTACAATCCTTTTGTGAAACAAAAGTCACACTGGCAATGATTTTACA GATCCAAAATAGACTCAGGCTTCAGACATAAAAAATTTAACATT[C/G]TCTAGTTCAGTGATTAGT CACAGAANTTAAACATCTGCCAGATGTACACAATTTGGTAAAAACTACAGCTTCTCTCCACGGGGA G
WI-21695a	141 A C ---	---	ATACACAGGCCACAATTGCAGGATGGAAGGCAGTGGGCACCTTGGAAAGTGACTACACATGGCAATA AGCAGCCTATCTCTTTACCACCAGAAAGTTCTTGGGCGATGTGATGGTGGCCAGACCCCTTTCCAA GGGAAT[A/C]TACTACACTAAGCCTACACTGTACTGTGAGAGTCACTGGTGGAAACAAGGCCACAGGC AGTGGGAGGAAATGTGATGACTTCACTGTGTTCCAGANTTCTAAGGCCCAGCAT
WI-21574a	235 C T ---	---	AAOCCAGAAATTTAGGTACTTTTGATTTATGAGGAACCTCACTATACTAGGAAGCAACTTATGAGTG TGTAATATTTGATCTAGCAGCAACTTCCACTGATCCTGGCAGGTGACAGCTCTCAGTGAACAGCGC TCATCACCTAAAGTGAGAGGCTGTCTATTCTCATTTGTGAATGTCCTCAGAGTCACTAGGGAGCCATT GGCAGGCCAGGGAACCTTACTGCCTACTTCTCTTCTGCTGTCAGGTGGGA
WI-21644c	151 T A ---	---	TGACTGCCAAGATTTAGGCCCCAACCTTAGGAGCAAGGGTCACTCTAACCTTTCAGGAAGTCTTGGGT GTGACCCACTGCATAAATGGATTTTACCATANTATTTAACAGACTCAAAGTGTACATACAAGCTTG TTTCATAAATAAGGGAT/AJTTCAATCAAGATCCATGGAATGATGCAGTTTAACTGTGTTCTCAGC TTGCCTACTGACCACCTTCTCTTTTCTAAATATGGCAACAGCACAGCAAGTC
WI-21614b	55 G A ---	---	TGCTTTAACCTCAAAGTCCAAATAAACATATAGACATTTTGANTATAGCTATC[G/A]JTTTAACA AACCCTATTATGATCACTGTTGCAATTTTCAGTCACCTAAATACGGAACCATGACTATTATAAACA TTTACTGTGTGGGTTTGTGGGACTGAACATTAACCATACGTGTATTCTAAGGTACTAGGGAGTT GGAACAGCTACTACGGGTCATGGTATTTTGGGCGAGTTGGCTGTGTGTGGG
WI-21615b	151 C T ---	---	GACCGAGAAAAAAGTCAAGGCATATGATGTTTGTGCAAGTATACATGACTATTTCAAGCTTATAGA GAAACTTGCAAAAAAGTACAAAGATGGCTATTTTAAATTTTACATATTAAGATAAGGATGGACT CTTTCAGTGAGTATTAT[C/T]JAGGACACAATCGACGGATGTAATCTATTTGANTTATACCATAGGCC TATCTATATTGGGCCAAAGGGAAGGTAGGATGGGTACTGTGGAAACGGA

WI-21981	61	T A ---	---	TGTCATCTCATTCTGGAGAAATCATAGATGTGGCAGAAATACATAATCTTGAAGAAAAAAAT[A]GTCTCCCTTATGGGTACTGTGATTTCAATAGGGTGTGGGATAAGTACATGACAACATGCATGGGATAGACACTCTGTTCTACAGATCOGTGCTTTGGGAATTACAGGAACATAAAGGATATAATGGATGGGTTATTACITTTTACATGTGGACAATCTAGTTGTAGGCGTTTAAGGTTAAATTTGG
WI-21660	120	C T ---	---	TCCCAACTAGCCTCTCAGTATTTAGATGAGGATAGAACAGATACGGTGTAAACACGCCCTCTCCACTGCTTACTGTGTACCAAGAAGGCAGAAAGCAGCTCACCCAAAGCCTAACCTGGCC[C/T]TGTCTTTTTCAGGCTTCTCAGGATGCCACAGACATACTGGGAACTGGGATGCAGGAGAGCCAGGGTCTGTCTTCAGGAGGTACAGC
WI-19105c	211	C T ---	---	TGGAAGTAGCCCTCTGGACAGAAAGAATATTTGTGGTCCATGTGGTTTGAGTCTGTTAAGAAGGACACTAAGGCACATGGCTGGTGATCTTTGCGTCATAGACACGGGTGAGCTCATGGTGAACCTCCTCTTGTCTGAGGTTCCAGGGCTGGGCACAGAGGTGAGGGCAGAAATNTGGGGTCCCAGTGGATCTCCCCACAACCT[C/C]TCCAGGGGCAGGATTTCCACCCAGGGCCAGGGTGTCCCCG
WI-19105a	33	T C ---	---	TGGAAGTAGCCCTCTGGACAGAAAGAATATTT[C/G]GTGGTCCATGTGGTTTGAGTCTGTTAAGAAAGGACACTAAGGCACATGGCTGGTGATCTTTGCGTCATAGACACGGGTGAGCTCATGGTGAACCTCCTCCTGTCTGAGGTTCCAGGGCTGGGCACAGAGGTGAGGGCAGAAATNTGGGGTCCCAGTGGATCTCOCACAACCTTCTCCAGGGGCAGGATTTCCACCCAGGGCCAGGGTGTCCCCG
WI-21760c	81	C A ---	---	CAAACTTAGTCACTCTACTGATGCAATGATTTGGAGGTGTCTTCCTAGCTTACAATAAGNGGAGGGACCTCTGACTGCACTGACCTCTGTCTCAGTTTCAGGGCA
WI-21760a	35	A G ---	---	CAAACTTAGTCACTCTACTGATGCAATGATTTGGAGGTGTCTTCCTAGCTTACAATAAGNGGAGGGACCTCTGACTGCACTGACCTCTGTCTCAGTTTCAGGGCA
WI-21569b	198	T C ---	---	TCTGCCATATTGTTCCAGCACCACTATTACTGTATTATTCTTTTGGAGAAACCAGGNATTAAAGAAATCTGGTTTGAATTTCCATGATGCCTAACTCTATGGTTAAAAATCCTTTTCTTACCAAAAGGAACCTTAAATCACCAGAGAAACAGAGGGAAGACTGAGATATGTTGCAGAAATTTATCTCTAC[T/C]AGAGACAATTCATAGTTCATAATCTTTCAGGGTTGTCCTTACTTGGGGGGC
WI-20934a	72	T G ---	---	CCAACATGCAACATAGTCTTCACTTAAAAAGTACATAGTAAAGGTATGAAAAACATTTGTATTCAAGAGAA[T/G]CTAAGACAAATGGTCAAAATATTTCAATGGCTGGCCTAGTGGTAATCCAGCAGACAAACAGCATGAGAAAAAGCCGGGAGACAGTAATAATACGTGCCCATGCAATGAGTTACCCCAATCAAGCCCTTTACCTCCTTAAGATGGCAGATTAGAAGACCCCTNTTCCCCAGGAGA
WI-21561	55	T G ---	---	TTTCCATTTTATTACGCGGGCCATCAGAACAAATAGCATCTATACCTTCGAAACCTT[G]CCTCTTAACCTCTCCAGGCAAGAAAGGAAAAAGTATGATCATATTTGAATTCCTCAGAAATGGTGGGATCTCAAGACTTTTAGAAAGTGCCTTATTAGTATAAGAGGCTTGAATATAATGATGATAAATGGTAGCCTTTCTGGAATAATTTTGTGTAATCTGTTTAAAAAGATTTTGGATGCATTTGTCCCCA

WI-21961c	200 T G ---	---	---	AGCTTGGCTTGAAAATTTGGTACTTACTACCTTTGCAATTCCTTTATTATTATTATTACTTTTATTTTCCGTAAGTTATTGGGGTACAGGAGGTAATTTGGTTATATAAGTTCTTTAGTGGCGAATTTGTGTGATTTGGTGACCCATTACCCAAGGAGTATACACTGCACCATACTCGGTCTTTTATCCCTCGCCCCCTTG/GJC
WI-21961b	73 G A ---	---	---	TCCCACCTTTCCCTCAAGTCCCAAAAGTCCATTGTATCAATTCCTTAAGC AGCTTGGCTTGAAAATTTGGTACTTACTACCTTTGCAATTCCTTTATTATTATTATTACTTTTATTTTCCG/AJTAAGTTATTGGGGTACAGGAGGTAATTTGGTTATATAAGTTCTTTAGTGGCGAATTTGTGTGATTTGGTGACCCATTACCCAAGGAGTATACACTGCACCATACTCGGTCTTTTATCCCTCGCCCCCTC
WI-21956	26 T G ---	---	---	TCCCACCTTTCCCTCAAGTCCCAAAAGTCCATTGTATCAATTCCTTAAGC CCCACCTTGGGTCTCTTCAAGTGAATTT/GJTTCCCTTTGCTGCTCTAAAGCCTTTTAAATGAACCTTCCATTCTGTTCTGAAACTTGCCTTAGTCTGTTTCTGCTTCATGCCCTCAGTCGAATTCCTTCTTCTGAGCGGCAAGGACTGAAGTTGCTGTGGACCTGTAGGGGTTGACGCCGGTAACCTCAGGGTAACCTCCTATCTCTCCACCGGTAAACAGAGGGGTACATTATGGGGTCCAGGT
WI-21966	148 G A ---	---	---	CAAACATACATTATGGCTGCCTTTATTTAAGAAATGTTTACTGAGAATCTGTACTGTAAACAACATATTTTTGTTAGAACGATGAGTGAAGTGTGTGTGTGCGCGCGCCGCGCATGGCACTGAGG GGATTGCAATGGG/G/AJACAGGATAAAAGGTATAAAACCTTGGTCCGAAATCTTTGCTTATTAAACCTTGGCCCTGCTCTCACAATGTTTCTACACTTAATTCATAAGAGAGGTAGA
WI-21930c	146 G C ---	---	---	TATACTGGTTTTGGTTACATGGATGAATGTCTAATGGTGAAGCTGAGATTTTAGTGATCCCATCACTGAGTAGTGATACATTGACCCAACTTGTAGGCTTTTATCCCTTACCCTACCTTCCACCCCTCCCCATTTTGAGTCT/G/C/CATAGTCCATTATATCACTCTGTATGCCCTTGCATACCCATAGCTTAACTCCC
WI-21139a	165 T C ---	---	---	GCTCTAGTGAAGAAATTCAGGACGGGTCTTCAGAGCAGAGGGCTTGGTTCAAGTCCCTGTTCTGCCACTTACTAACTGCATGACCTTGAGCAAGCCACTTAATTTCTCTGCTCCTTCTCTGTGAATGGGTACAA TGTGGGTACGCAAGTAAAGGAACATAACATTC/GGTACAGCACTTCAGCACAAAGCCTGGGCACACAG
WI-20317b	217 G T ---	---	---	CACTGCATGGAATACACAGGTAACATTTTAAACAGTGGGGACAAAATTTAAGTACGTGGCCAGCTGTTGGTTGCTTGTGGTCAATAAGACAATGTTAAGANTCAGGAGTACTTAAGTGTAGTGGTTACA AATTTTGTCTCTCAGTTTTTTCATTAAAGTAAATTCCTAATAGATGATATACATATTACTGCAGATAAAACCATCATCAGAAA/G/JJATTAATAATTAATGCATATTTTGAGGCTACTCT
WI-22082e	179 G A ---	---	---	CAGGACTTGGTTTGTGCTCCCACTGCACATAAATGTCCCTTTTGTGAGTTATGGTTGTGCGGTTTTCTCTTTTGCATAAGAAATATGTCCATTAGTCCAGAGGCTCTGCTTTATCCGGATGACGGAGGTACACGGGGCTCGCTCAGTTCCCGCGAAGGAGTATC/GA/CTGAACCTGGGACGAGTCTACTCTCCTCCCCACAGGAGCCACGATTTCAAATCTCTTTGTGCTGAACCTCT

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WI-22082b	67 C T ---	---	CAGGACTTGGTTGCTGTCCCAACTGCACATAAATGTCCCTTTTGTGTTGAGTTATGGTTGTGTG[C /T]GTTTCCCTTTTGCATAAGAAATATGTCCATTAGTCCAGAGGCTCTGCTTTATCCGGATGACGG AGGTACACGGGGCGTCCGCTCAGTCCCGCCGAAGGACGTATCGCTGAAGTGGGACGAGTCTACTC CTCCCCACAGGAGCCCCACGATTTCAAATCCTCTTTGCTGCAACCTCT
WI-20993	139 A G ---	---	AACACAAACTCCATGCTTTCAAGATCCCACACCCAGATACTAAGACATAATTAATAATTACAGCAAT TAAACAGTGTAGTTGGTACAAATACACATATAGCAATGATACAAATAGGGGAAAAAACCCCTGG GCCTCT[A/G]TAACAAGTGAGTATACATTAAAGACAGTATTGCAGAAATGGCTCAGGATTAATTTGA TTAATTTAGAGAGAGCCTATTTCAAGGCTTCCTAGCTCATCCACACATCACC
WI-21723b	125 A G ---	---	AAGCGATTTTATTAAATTGATTTGGACATACTGTAGGTCAAATAATAATTTCTGAAGATAACAATTA TGGACTTTAAAGCTCGACATAAAATAGTAGCTTCAAAGGGTTAGTCATATTTCCCA[A/G]CAACA GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGGAAACTCGGAAATC ATT
WI-21723a	82 G A ---	---	AAGCGATTTTATTAAATTGATTTGGACATACTGTAGGTCAAATAATAATTTCTGAAGATAACAATTA TGGACTTTAAAGCTC[G/A]ACATAAAATTAGTAGCTTCAAAGGGTTAGTCATATTTCCCAACAACA GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGGAAACTCGGAAATC ATT
WI-212132	99 T G ---	---	CAACAGATGCTTGAGCCAAAAAAGCAACATAGGCAGAAATACAAATTGAGAATATCTTCATGTTTC AACCTTTAATCTGACTTGCCTTTACTATCCTT[G/C]CCCCATTCTCTAATCTCTTTGCTTACAA TATATTACCTTCTAGGTATCACCTCATCCTATAGGAATGCCTCTAGTTAATGCTTCCCCCAACA ATACTAACCCATTGAAGGATAACTATGGAAACCTTTAAATGGGACAGTGGG
WI-21006a	106 A G ---	---	TGACAGATCACACCACATTTGTTGTAACTTTTCTCCTTCAAGAGTCACCTTAGCTTAAGCCAGAA GATTCTCTTAAAGAACACATACACACATGTGCACACAC[A/G]AGAGGCAAGTACAAAAATGTAACC CCACCAAGTGCATGTGAATGAAAGTGCAAAAAAGGCTTCATTTCGAAACTCTGAGGATCATTTCTCT CTGCTTCAGGAAAAATAACAGAAAGGTCCTAACTGCCCTAGGCCT
WI-21761b	138 C G ---	---	CTGAGGCCCTGCTCTAACTTCATNTGACGGAGCGAGTTCTCGCTTGAAATAACTGAAAAGATTTCAT TTTCTCTTTGTACAAAGGATTCAAAATATTTTACATCTTCTCTGCCAGTTAAACGTCGCCGTGG CTC[G]CAATACACACCAAGCCAAAGCGTAACTTGGCTGCCTCAGGAAGGCTGGGAGGAAGTGCCAG ATGGTA
WI-21079c	166 G A ---	---	AATGAAAATGCCACCCAGAGGTTAACAGCTTGCCATGCATGCAACTGTGTGGCAGAAAAATCAAGTTGT TTTAATACCAAGTGTGCAGCTTTGATTCCTCCATGAAATTAAGCTGTGTGCTCAGTTGTTTACATAA CTCAGGCCACCCCTGAAATATCTGCTAGTGGG[G/A]AATTTACAAACCCACTGACCATCTCAGCTCAAA GCCAGATGACTATCACCTACACATCTGCCAGGGTAATAGGCATGGGCAAT

WI-21079a	50 G A ---	---	AATGAAATGCCACCCAGAGGTTAACAGCTTGCCATGCATGCAACTGTG[G/A]CGCAAAATCAAGT TGTTTTAATACCAGTGTGCAGCTTGATTCCTCCATGAAATTAAGCTGTGTTGCTCACTTGTTTACA TAACTCAGGCCACCCCTGAAATATCTGCTAGTGGGAATTTACAACCCCACTGACCATCTCAGCTCAAA GCCAGATGACTATCACCTACACATCTGCCAGGGTAATAGGCATGGGCAAT
WI-22129a	45 T G ---	---	TCTGTAGATTTAGCCATGCCATATATTTAACTTTTAAGGAAAAGT[G/G]TTATATAACAGTCATTGCT TGGTAGAATCCAGTCTGTCAATAAGTTAGCTTAACAGTTAACAATTGAAGCTTTATACCTTATATTTA AATGTTTAGCAATCTCTACTACATTTTCAAATATAAATAATTTGGTTGCAAAATCCAGNAAGGGCA TTAACCAACATGGGACTGATCTGGGGGCTTCCACCTGACTAAGGTTTTA
WI-21941	79 A G ---	---	TGGAGTTAAGTGGGGCTCTGCTATTTCCCCCAAGAGGACTCGGAAGATGTTGATTCAGGGCAGAGT GAGGGCAGAC[A/G]GGATGAGGCTCTCTGTAAAGTCCAAAGACGCTCACAGATGCTGGGAGGCT GGGACTGCCAGGTTGGGAGCTCACCCAGAGAGGCTCACTGCAATTGACCCCAACACCCCACTCACC CAGCACACAGGCACACGCGAGGGCACACGCACACAGNTGCACTCACCAACGC
WI-18916b	42 C T ---	---	AATGGCATCCCTGTGATACCAACATCTTCAGCAGCTCAG[C/T]GGCTTCCCACCTCTTGGTACCC GGTTAACTGCCAGNGGGTGACAGTGATGCCAGGGCTCGCCCACTACTGCACTGGACACAGCCTCACC AATGCCACCTTCATA
WI-18916a	35 G C ---	---	AATGGCATCCCTGTGATACCAACATCTTCAGCA[G/C]CTCAGCCGGCTTCCCACCTCTTGGTACCC GGTTAACTGCCAGNGGGTGACAGTGATGCCAGGGCTCGCCCACTACTGCACTGGACACAGCCTCACC AATGCCACCTTCATA
WI-19828c	200 A G ---	---	TTCCCTTCTCCCCAAGAGTGGGCAGAAAAGCTTTGTTAACCTCCTTTTACAGATGAAGAAAAACAA GATCAGAGGTGCTAAGTGTGTAGCCTAGTGCCAGGNCCTTGCCGCCAATTTCTGGTTCTCCCCAAG CCCATGCTTCTCCACTTCTCACAATCTTTACTTCTCTGACCTCACCCACCCCAAAATTA/G ICTTTTAATCTGGAAAAGAACCCAGCTGCACACTGGGGCACACTTGACCT
WI-21863b	47 C T ---	---	CACAAGAGTCTGTACAACCTTAGGGACACAGCCCTGGCCCTG[C/T]AGCTGCATGCCACCCCTC ATATCCACCCCATCCCCAGCCTCCTGCCCGACACCCCGGCTCCCTGCTGTGTTGAAGTATTTT CTCCAAGGCAGGAATGAGTCTTGATCCCAACACAGCATCT
WI-19860	51 C G ---	---	TTGACCTAAAGCCTAGCATAAAATTAGCTAAGTAGAATGTTTCCAAAGATG[C/G]CTGCATCAGTAT CTCCCATCCACATAATTTCTGTTGATTTTGGCATTACCCCATAAATGGTGGGATCTACCTCCCCT CCTTGCAAAATTTGAGCTGNCCTCTGATCCTGTCTAAGGATCTGAAGCC
WI-19889b	80 C T ---	---	ACCCAGCTCCTTACCCTCTGGCTTTCAGTAGGCTTTGGCTAATGGCCANTGAACTGCAGGGCAAG AGGAGTGAGGGG[C/T]TACAGCAATTTATTTCCCTCTTCACTCCCTGTTAGCTTTGGTAGTGGCTGTAT TTCTCTACTGATGTTCTTGGCCACAGTCGTAACCTATTCG



WI-19891c	172 C G ---	---	TGTTGGTCTGAGAAATTCACAGCTTACTACAAGGAAGCTGAGAAATTCGTTGGTGGCCCCCTCCCCCCCCG ACTCCTCTGTCTGGGAAACGTGGCTTTGNCTCCAGACACGCTGTCAGATGCCAGCTCTCCTCAGCGG AGCTCCCGATCCCTCAATTTGCCATCTGTCTGACTC/C/GCGCTCTCCCGGGCGTGGGGCGTCTGTGT CAGGCAGCGGGCGGAGGAAGGAAGGAGATCCAGGGTCTGTCTG
WI-20155a	81 C T ---	---	GCACCTGTAGGGGTGAGCTTCACATGGTTCTCCAAGCACGGGCTGTACATTACCCTTAGGCTGACCAT TCCCTTGGGGGG[C/T]GCAAACTGCTTTGAGGAAATNTCCAGGAGGAATAAACTAGAAGACGC ACCTGCTATTTCAACATACATATGGAGAATACAGCTAATGAAGTGGTGGCAGAAGCTTGGCCGTGTGA GTGCCCCAGGGTAAAGTCTCTCTCTGTCAGTCCAGAGCAGACTTCTC
WI-20270b	91 T G ---	---	AGCCATACAATGCATTGCAAGAAGAAACAAGCAGCTGTACAGGAGTGGGACGCGTCAAGTGTACAAT ACATTCATGTCCAGGATAAGGAGCA/T/G/ACACCAGGATTTATACACGGTGGCAGCGGCTATAGGCA CGATGATACAAAATATAAAGTATATTTCCATCTATATAAATACACAGCTGGGTGGGAAGGATGCT GGGTGATCTGTTTCCCCCGCAGAGGGCCTGGGAGCGGGNGGGTGGTGGAA
WI-20270a	53 G A ---	---	AGCCATACAATGCATTGCAAGAAGAAACAAGCAGCTGTACAGGAGTGGGACGCG[G/A]TCAGTGTAC AATACATTCATGTCCAGGATAAGGAGCATACACCAGGATTTATACACGGTGGCAGCGGCTATAGGCA CGATGATACAAAATATAAAGTATATTTCCATCTATATAAATACACAGCTGGGTGGGAAGGATGCT GGGTGATCTGTTTCCCCCGCAGAGGGCCTGGGAGCGGGNGGGTGGTGGAA
WI-20622	130 T C ---	---	CCACTTCAATATTTTACAAAATGCTCAGCGAGCAATATGAAAAGCTTCAACACTTTCCCTTTTGA ACTTGCTGCAATAAATGCAACTTTAACAACATACAAATTTCTCTGTATCTTAAAGTTGAA/T/C/ TACTAATTTTATGATGTTACTCATATTTTATTCATATACATCTTTAATGACATCATTGCCAAATACATA CATTATTTCTNTAACTTATTTTACAATAAGCCAACATCTGTCAATGCAG
WI-20768b	190 C T ---	---	TTCCTCACTAAAACCTCCACCCCAACCTTCTGGAAGGCGAGGGCTAACAGGACCTCCTGCCTGCCTGC TCACGACTGATTACTTTCAATCCAGCTGCAATGCAAACTGAAACTCATTTCTGTATATCACCACCTTA CAGGAGAGGTCTATTTCTGGGACCCAGAGNTCAGCACACATCTGCTGGGA/C/T/CAGGGACTC GTAATTCGCTTGGTCCAACTCCTTCTATGGGTTAGCTGCCCTCATTC
WI-20768a	71 C T ---	---	TTCCTCACTAAAACCTCCACCCCAACCTTCTGGAAGGCGAGGGCTAACAGGACCTCCTGCCTGCCTGC TCA/C/T/GACTGATTACTTTCAATCCAGCTGCAATGCAAACTGAAACTCATTTCTGTATATCACCACCT CTACAGGAGAGGTCTATTTCTGGGACCCAGAGNTCAGCACACATCTGCTGGGACCCAGGACTC GTAATTCGCTTGGTCCAACTCCTTCTATGGGTTAGCTGCCCTCATTC
WI-21909	153 A T ---	---	TGTTTGCTTTGTGCCAGGTACTCTACTGCTTTACATAAAATATCTCATTTCTGTCACATCTAACGGCAA CTAAGTATACGTTACATCTGCTAGTGGCACCTAAAATAGGATATTTGTTGGTCATCTTTAAAGAAA TGCTCTAACATACCAAAG[A/T]AGTGGAAATCAATAGAATAAAATATTTAAGTCTTACAAAGCGTAC GACACTAAAGTAAATATAGGATACCACCTAAATTTATTTCTATGATGGAAG

WI-22202	128 A G ---	---	---	TGTTGCTTTGGTTGTTGCTTCTGGAACATATTGGAACACTTGTTTTTCATAAGCTGTCTGACAGT GGCACAAATCCCATCCATCTTCAGGCCTTTTAAAGGTCAATTATGAATCTGAATTTCTJAGJTAAAT ACTCTGGTGCAATTCATTTCACTGCAAAAGCAACTGGCACAACTCCTTGCCGGTGACGCTCTCGG AGAACATCTAATATTGAGTCTAGTCTGTGCGGAACCTCTCCAGCTCAC
WI-22189	70 C T ---	---	---	CCAAGGATGAAATTTCCACATTTATTTTNCITTTATGTGAATAGAAAATGGCAGTGAAGTGTCTCTATG AACTTGAGCGGAGGAATGGCATGGCGCTGCGGTACCGCTGGACGTTGTGCTTCCAAAAGTACAC TATGTGTGGTGAGACAAAAGGGT
WI-22283	109 T C ---	---	---	GGGAGGCATCATAGAAAAAACCCCTCAGCCAGAAAGTTAGGACATTTGTGATTCTCAGCCACTAACGA GCTGTATGACCTTGGTCACTAGGCCTCTGCAGGCTCTGGTGTJGJTTCATTTGCAAAATAAAACCCA GACCGGTCATCTTTCAGTCCCTTCCAGCTCTATTATTTATGATTTGCTCTTAGTCTTTATGAGCCA TGATGATTTATCAGTCTCCCTGATGCACTCAACTCCAATGATGCAAAAG
WI-22290a	136 C T ---	---	---	GACGTCACTCTGAGGGCTCTGCCAGGTGGATTAGGTGAAGAGAGGTTTTATGGCCCTTAAGCACCCG GCCAGTAGTGGGGAATGCCACATGCAATGGGTGAGTGGGATCTGGGGGGTCAAGAACCTTGCTTTT CTTTTCCAATCTCTCTCTTTCAGCCAGAACTTGCAGAGAGCCCTTTTATTTCTCTCCCTCTATTCC CTCTCTTCCCCAAATGTCTAAGGTCCCAATCCCAGACCCCTCCAG
WI-22292	53 A G ---	---	---	CCAGTGAAGGGTTTACAGCCATAGTGAGGTTCCCCCATTTGCTCAGTACCAGA[A/G]GTTTGAGTAC GGTCGTTTAAAAAATACTTATCTGACCACAGTGGAAA
WI-22387	186 C T ---	---	---	ACCTTGACACCTGCCATCCGGTGCCATCTCTGCTGGCTGGCACATCTATACCCACTCTGGCTCTGAAAG GCTTGCAACCAAAATGGCAGCTGGGCTAAGGCATATTTAAACAAAGGCTCCAAAGGACCCCTT TCACTTGGGTCTAGCATCCAGCCTCTCTCAGCAAGGAGGATTGTGGT[C/T]CCTTGTGTTTTCTG AACAGGCCAGGGCAGCCAGGCATGCCATCACTGCAGCACTCAACCCCT
WI-22395b	127 A G ---	---	---	GCCGTTCCAGTATTGATAATAATTTGTGTTTAAATTTCTATACAGAAATGGTTCTTTCTTGAATATTTT GTAGGGATGGATGAATTGAAAGTGAATTAAGTCAAGATAAAGGGGGCAACTCTTTAAT[A/G]AAG GAAATGTTACCAATCCATAGTGAAGAGTAGAATATGTTCTTTTAGAGTAGNTAGAAAGTCCCCCAGG CTCCT
WI-22405	90 A C ---	---	---	TTTATGGCTCTGAGTGCCCTTACCCAGCTACACTTTACCTTGATCTATAAAAGTGAATTTAGAGT AAATACATTTGGCTGTAAGTCCG[A/C]GATCAGGTGCTCTCCACCAAAAGCAAAACAAACTGCTGA AATGTGGCAAGTTTCTCAGTG
WI-22419b	67 T C ---	---	---	CCCTCTGGACAGTTTGTCTTATGTGTTTCAGACAATCAAGNCGCCTTCCAGGCACAGCCCAGTGC[T /C]CTGGATGGCATCAGCAGGCTCCCTGCCCGGCCCTTGAAGCATGGCTGTGTGCACGAT
WI-21342d	59 T C ---	---	---	ATTTTCCCTTCTGTGTTTCGTAATTTCCCTTTTGTGAGTAAATNAGCAATACACTGA[T/C]TGAA ATCTGCATGATTAATAACATTAAAGTTCATAAACACACCCCATATCAGAGTATAAAGCAAGAG GTTGAAAAATATCCCTAACCGAATGCAAAATAGGTATCCCTCAAAATTTGCACATTTCTCCTCTAGTT T

-275-

WI- 21763b	154 A G ---	---	CATACCCTTTAGGTGCCCACATTGATCTTAGTTAACAGTCTTGTAGTTCCCTCTTTAGGCTTCAAGA TAATTGTGATTTTCATCGCACCCAGATACTTCCAAGTGGAGCCAGGCCTCAGACTGTTCTCAGTCACT GCTCTCCACAGCTGATTAGCAGACATTGCCTGTGCTTCTTACCCAGCAGCTGTCTAGTGCACCTT GA
WI- 21763a	135 T C ---	---	CATACCCTTTAGGTGCCCACATTGATCTTAGTTAACAGTCTTGTAGTTCCCTCTTTAGGCTTCAAGA TAATTGTGATTTTCATCGCACCCAGATACTTCCAAGTGGAGCCAGGCCTCAGACTGTTCTCAGTCACT T/C/GCTCTCCACAGCTGATTACAGACATTGCCTGTGCTTCTTACCCAGCAGCTGTCTAGTGCACCTT GA
WI-22440	64 A C ---	---	CAGTCCATTTGAGTCCCCAGTCGAGGGTGCACTTCTTCCCTTATCTTGCTTAAGCCACTTGGGTAA/C/] TCCATTCCAGCTCTGCACCTTCTCCAGTTTCTCATGTGAGAGTCCCTGGAGGGAGGCTTTCTGG AAAT
WI-22449	74 T C ---	---	CAATGAATGTTGTGGCATAATGATTNCCATTGTGTGACAAATTTATTAGCTGGCATCCGAAATACAGTAC TTCCTTTT/C/GAAAAAATACACAATGGGAACCTGACA
WI- 21965a	112 A G ---	---	CAGGTTCCACCAGAGGCTTTATTTACGCACCTCAGGACCCCTGCTTCTGCTCCAGGCACTGAACA CAGTCAGGCTCTTCTAAACACTGGCAGGACCTCCCCACAGCC/G/JCCCCACAGGGTTCTCTGTT TCCCAAGTCTGATGGATTGAGCAAGACCTTCACACATTACCCACTACCTGCTGGAGAGGAGGCTC ATGAGGCAGCCTGTGTGCCAGCTCAGTGTGACACACTGCCAATGTGC
WI- 21687c	115 C G ---	---	CACCTGGCAGTTGAGTCAGATTGTAGGAAAAATTAACCCAGATGGGTCTACATTTTNTTCAAGTTCA AACCACATGGTTTCTAGTCAGAAAGTCTCATGGACTTCTTCCCTAAG/C/G/JTGTCTATGATCAGAC CACCTCCTAAATGTGGCTTTTACCCATTACAGGCTACAGTTGAATCAGGAGGAGGAGCTGCTGGAG AG
WI- 22374a	149 T C ---	---	AGCTTTTACAACAAAGCAGGGTTTAAGGAGCCTGAGAAGAAATTCACAACCTATTGACTATACAGAG TCTTCAATTCACAAAAACAGTTAATAGTAACCTTGGTGGCACATACAACATGCATTGAATACTCTGTAT TATTCAGTAACTAAAT/C/JAGGNTCCTGCATCATCTCTTTCACA
WI- 22250b	132 C T ---	---	ACTTGCTTCAGGCAGGCACTTCTGGGATCTAAACTAGAAATCCTTGAACAAATAGTACCAGCCA CTTTGAGGAATGTGCACTTCACTGTAGTGGTTATTATGGGGTCTCTGCCTCCTGGCTGTGTTATG/C/] GGANCCAGGAGTGGAGGAGCCGTGGAAATAGACAGGGGAG
WI- 22250a	89 G A ---	---	ACTTGCTTCAGGCAGGCACTTCTGGGATCTAAACTAGAAATCCTTGAACAAATAGTACCAGCCA CTTTGAGGAATGTGCACTTCACTG/JA/JAGTGGTTATTATGGGGTCTCTGCCTCCTGGCTGTGTTATGC GGANCCAGGAGTGGAGGAGAGCCGTGGAAATAGACAGGGGAG
UTR- 04932-2b	192 G C ---	---	GCAGCCATCCTCTCTCCACACCTCCAGGCCACCTGGGGCCAGAGCACTCATGCCCCAGCAGCAC CTACGTGGCCCGAGTACGACCCGCTGGCCCCAGGTTCTGGGCTCTCAGGACGTCGCCAGCAAGTGGA GCCACAGAGGTTTGTGGGACTCCAGCCAGGAGGATAGGGCCAGCCCAAGCAACCTG/C/JAGTGTCTC TTTGACGGGGCCCGCTGCTCAGCTGCTCCTGGGAGGTGAGGAAGGAGGT

UTR-04932-2a	149 C T ---	---	GCAGCCATCCTCCTCTCCAAACCTCCAGGCCACCCTGGGGCCAGAGCACCTCATGCCAGCAGCACCTACGTGGCCGAGTACGACCCCGCTGGCCCAAGTTCTCGGCTCTCAGGACGTCGCCAAGTGGA
			GCCCAGAGGTTTG[C]/TJGGGACTCCAGGCCAGGGATGAGGCCAGCCCCAGAACCTGGAGTGCTTC
			TTTGACGGGGCGCGTGCTCAGCTGCTCCTGGGAGGTGAGGAAGGAGGT
stFIBBb	412 G C ---	---	GTGAGGAAGATGGACCTGGACAGACAGTCAGCTCCACACCTTGGCTGAGCAGCTGTGATTGTGCCA
			CGGGAGCATGAGCCCTTTCCCCACGGCCCTTGGCCACTGTCTCCTGGCCCTCTCTCTGATCATGCCAGG
			TTTGACCAAGCTCGAGTCTCCCATGTTGTAGTACATTTCTCCAAGATGCAGCCAGGAGCCTCTCTGA
			AGGACCAGTCTGTTACGATGGTCTGAGCTTCTTAGAACCTTCCATGGTT
stFIBBa	341 T C ---	---	GTGAGGAAGATGGACCTGGACAGACAGTCAGCTCCACACCTTGGCTGAGCAGCTGTGATTGTGCCA
			CGGGAGCATGAGCCCTTTCCCCACGGCCCTTGGCCACTGTCTCCTGGCCCTCTCTCTGATCATGCCAGG
			TTTGACCAAGCTCGAGTCTCCCATGTTGTAGTACATTTCTCCAAGATGCAGCCAGGAGCCTCTCTGA
			AGGACCAGTCTGTTACGATGGTCTGAGCTTCTTAGAACCTTCCATGGTT
stIGLV2	61 T C ---	---	GTCAAGAGGGCAGCGCTCTGGGACGTCTCCACCATGGCCTGGCTCTGCTGCTCCTCACTTCCTC
			CTCACTAGGACACAGGTGACGCCCTCCAGGGAAGGGTCTTGGGACCTCTGGGCTGATCCTTGGTC
			TCCTGCTCCTCAGGCTACCGGGGCCAGCACTGACTCACTGGCATGT
stSG1001	70 T C ---	---	GTTCAGGCTCATCTGAACCTCCTGGTGTCAAGCGATCTCCACCTCGACCTCCACGGGTGCTGGGAT
			TA[T]/CJAGGCATGAGCCCCCACACCTGGACACAAATACATTATATACTCTAAAGTATAGGATTACT
			TTAAGAGAAGGAACTAAAGTATGATGGCTTACTTTCTAATCC
stSG1001	33 G A ---	---	GTTCAGGCTCATCTGAACCTCCTGGTGTCAAGCG[G]/AJATCCTCCACCTCGACCTCCACGGGTGCTGG
			GATTATAGGCATGAGCCCCCACACCTGGACACAAATACATTATATACTCTAAAGTATAGGATTACT
			TTAAGAGAAGGAACTAAAGTATGATGGCTTACTTTCTAATCC
stSG1002	63 A T ---	---	TAATGATAATTAGGGCATTCTTCCACACGAAGATGACACAAATTGACCCAAATATCATTTGAGGC[A/T]
			AACAGTTTGGGCTGTTTTCCAGTAGTAGACAGTGA
stSG1009	36 G C ---	---	GTGGAGAAAGATCGTCTTCTCCTCCCTCCCATGACC[G]/GJGGCTTCCCGGGGCACCTGTGCGTTTTCC
			ACCCGAGACGGCCTTTGTAGGGACCCACTGCCACTCCGCTGCTGTGGCTGGGTTCCGCTCCTAG
			GGCTCGAGTGTTTAAG
stSG1011	107 C A ---	---	TAGGCTTAAACCTGGAATCTACAAGCCAAAGTCCCTCCCTGCCTGAGGGCAGTACCCCTCCATTGGGC
			ACAGTCCAGACCCCAAGTCAAAGATGCCCATTCCTTGGC[G]/A/CJTAGCCCTCAGTTCCTTCATTCC
			ACCAGGCGGTGCTTGTGAGTTTCTCCTCCAGTGAG
stSG1012	89 T C ---	---	TAGTAGGTAAGAAAAGCAAGGAGGATTGCTTATCGGATGACTGTTTACAGTGGTGTGAGACTATGC
			CGTGTTCCAGCAACACTTTAATA[T]/CJGTTGTTGTAATCTGATTTTATCCTCGTCTTACAAATG
stSG1017	42 C T ---	---	TTGAAGCAATATTGTCTAGCACTCTGCTGGACATTAAGTCCG[C]/TJGGGAGGAGAAAGTGAACAGGAA
			TCGATCTTTGTCTTTAACTGCCCTTAGTAGGAGATGTTAAAATACTTGGC

stSG1019 3	136 GA ---	---	GGAACAATACTACCTAAGGACAAAATACTATTATTAACAAAAAGTCTTCTAGTGATATGTGTAA CACATTTCTGGAGCTGGTAGGAATAACCAATTTTATTTTCTGTAGTGCCATCTATACAACTTTTAC TIG/AJTGGAAACTGAGATTTAAGTTGCAAACT
stSG1020 2c	143 GT ---	---	AAGCTAACTTAGGTGAATGGTGCCACTCAAAGGCTTTCCGAGGGAAGCTCAGTCTGGCTTGGGAG AGTCAGCCTTGGTCACCTCATAACGGGGCTCCAAGCTAAGGCGTCAAGGAAGCAGTCCCACTGCTTCT CGCTGTCAIG/JCAAGACCACAAAGGCAGATGCCCACTGCTGCTCTTTCTTGTCTACTTTCT
stSG1020 9b	75 AG ---	---	TCCTTTCTCTTTTCACTCTCAGTCACCATGATTCATAATAAACTAAATCTCTCTTAAGATCCCACCTTAT TTTTA/JGJCTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1020 9a	34 CT ---	---	TCCTTTCTCTTTTCACTCTCAGTCACCATGATTJC/JAAATAAACTAAATCTCTCTTAAGATCCCACCT TTATTTTAACTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1021 8	29 TC ---	---	TACTAGACATGCAAAATGAGAAGATTACA/JCJGTGAATATTAAAGAAATTATTTGTTTGACAT AATATGCAATTGTACCCGGGCATAATAAAGTTAAAGCCAGTTATTCTGA
stSG1025 2	108 AC ---	---	ATAGGTTTCAGGAACAAAATCATTAAATGGAAAAATGAGAAGAAATCTTTATTTTGGACCAATTTT AGGCACTTAAGAGTTTCTTTCTCTCTCTTCCCTTTGATCA/JCJAGTGAAGATATGATAGGGAATTC AGAAATTTCTCTCTTG
EST10915 0	123 AC ---	---	CTGTATTAAATTAAGAAAGCACTAATTAATGAGGACGGAAAAATCTACCTGTACACAAAAATCTGTAC TTTAACAGCATCTTCAAAATAAACCTTTAAAGGATAATGGTTACGATCATTTTAAAG/JCJATTTTAA GAACTGAGTTATTGGAC
EST11023 1	166 TA ---	---	TTTTTGTAAACCAACCACTGAAAGTTCCACATGTGAAATATAGATACAACAGTGAACAAAAT ATGTGGCTCCCATGTACATTGGTTACCTATGTACAAGTATCTATACACCAGTAAACAGCAGGGC AATTAGTCAATTAAAAAATAGTACATGTTA/JJGTGTAATAAAATTTAAATTTACAAAGGCTTT TCCACTCGTGGATTGTCTCTTTTGGAGGAGGGAGTAATCCIGG
EST14096 8	71 GC ---	---	GGGATGTATATTACAGATAACACAACCTCACAATATACCATCAGACATTGAAAACTAAGGCCATTCT GTGA/GCJTATTTTAAACTTGGTGTGTCACATAATGATCTTAAAAAATAATGAATTTACCAAA ACCAAGATTCTCTTCTAAATGAAAATTTAATGCAGGTACAGGATAACTTTAGGGCTATATCTAATC TGAAG
EST22113 6c	125 CA ---	---	TGCAAAATTGTGAGAAGCAGCAGGGGCCAACCCCTGGGACCTCATCTCTGTCTAGAAATGTGAGGTG CAGGGATGCTTAAGTCTTCTCTGGCAGAGACCCGAGGTGCAGAGATGATTCTTCTCA/CJCCCTTC TCTCAGGGTGTGGAG
EST22555 7	60 GA ---	---	TCAAAGCATGTGTAAGGCACCTGCCCCGCCAGACOCCTTCTAACTTCTGCACACTGGAGGTG/JAJAA CCTGGGAGAGAGAAGACACACTCCCCCTCCCTAGCTTCTACCTGGGACCCCTCCAAGATGAGCATTCTC TTGGAGACCAAAATAAAAAAGGACAAAAGACCAGGGGCTCAGAG

EST22917 6	74 C T ---	---	GTAAACCTTGCAAACGCCATGCTAAATGGAAGCCTGACTGACCAGGGGCTCTTGGGCTCTCAATGCA ATAGAAA[C/T]TGACATGGGGCAAAAGACTTCCAGACAAAGCAGCGAAGGTAGAGGATATAG GTTAGCATCATCTGGTTGTGA
EST36458 6	65 A G ---	---	CAAGTTAGAACCATGCATCAGCTTTTCATCCATGGTGAACCTTAACCCCTCAGGCTGTCCTACTCA[A/ G]TGTTGTTGCTAGCCTCACTCGCACACAGGAAGCTTGGAAATTTGGAGGCTCCAAGTCACTCTCCA
EST36745 3	56 A G ---	---	GAGGGGAACTTCAAAGAGGATTCCAACAGTGAAGCAGATCATGGGGCAAAAGTC[A/G]CTATGG GGCCAGACTGAGGTTGGAACACACAAAGCACTCCAAGCTGGGCAATCCCAACCGCTGGTGAAGCGCG ACAGCACGGGAGTAGCCAT
STS- R37410c	201 A T ---	---	TGTGACCATACCAAACCTATGCAATAAAGAAAAAGAAAAATCCTCACCTTAAAAAACAACAAAA AACCTTTGCAATGCTATCATTTTTCAGGTCCTTTTGAAGTGTGAATAAAGTTCATAGCATTTTGGGA ATTATGGTTGAATAAAATACAAAATGTGTGATCTCCTGAGACACATTTATAAACATTCTGGTATG T[A/T]TATGTGAGTGGTCTCTAGTGGCCAAAT
STS- R37410b	139 G T ---	---	TGTGACCATACCAAACCTATGCAATAAAGAAAAAGAAAAATCCTCACCTTAAAAAACAACAAAA AACCTTTGCAATGCTATCATTTTTCAGGTCCTTTTGAAGTGTGAATAAAGTTCATAGCATTTTGGGA ATTAT[G/T]GTTTGAATAAAATACAAAATGTGTGATCTCCTGAGACACATTTATAAACATTCTGGT ATGTATATTGTGAGTGGTCTCTAGTGGCCAAAT
STS- R37410a	48 C T ---	---	TGTGACCATACCAAACCTATGCAATAAAGAAAAAGAAAAATCCTCA[C/T]TAAAAAACAACAA AAAAACCTTTGCAATGCTATCATTTTTCAGGTCCTTTTGAAGTGTGAATAAAGTTCATAGCATTTT GGAATTTATGGTTGAATAAAATACAAAATGTGTGATCTCCTGAGACACATTTATAAACATTCTGGT ATGTATATTGTGAGTGGTCTCTAGTGGCCAAAT
STS- R42778	74 C T ---	---	TATCGTGGGAAGTCCAACTCATACTTATGCTGCTTTTCTACTTGTAAATATTGGATGCTTCTTGCCA GGCTC[C/T]TAAATTGTGCTGTAACTTGGGAAGAAACCTTCTACTCTCCACAAACCCCTGAA CAATCTGAAGAGATGCATAGCGGATTGGTGGCTTTTCAGCAGCTGTGGGAGGTGGGACTGAGGAGCG ACTGCTAATCAGTATGGGTTTCTCCCGGGATGGTGAATAATGTTCCGGACCTAGATA[C/G]TGACGA AGGTAGCACGACACTGTGAGTGCACATAA
UTR- 04350	125 C G ---	---	GAAATAAACATAAACTGCAAAAGCAAACTACTGTTAATAAGAAATTGTTCTTCTGT[T/C]GACAGTTG AAGTGGGTGTGAGATGGGCATAGCAATGAACAGTGGGAGCCAAATGAGGTCTCAGAAATGCGGGGCAAA CTCCTCTGTGAAAATGTAT
stSG1026 6	55 T C ---	---	GTATAATTGAGCATAAGCCAAAGCCCTTTTAAAAATAACCAATAGTATCATTTTATGAAATCTTTTACA AGA[T/G]AAGCACAGTAGTACAATAATTAAGCATCTCAAGTCTCCATTTAAGAGTTGACTATC
stSG1028 2	70 T G ---	---	CACTTAGATATGAGGAAAATGGTTTAAATGGACACAAAGGAGTCAGCCACGTGGAAACCAACATAG TTTCATACCACGTTGAAACCATGTGTTTGATATGCAAAATACAGCAAAATATTTTTCACCT[C/A]TTG TCAATGCCAATGCATTGAAAGGCCAGAAAATGAGAAAAGGATAACAACACTTTTGTATAAAAAGGTA AGAATTCTGIGTG
stSG1031 0	128 C A ---	---	

stSG1033 1b	116 T C ---	---	TTTAAAGCTACATGTCTGAAAGAATGATGCTGCTGATTGAAATAAAGGAAGGATGCATTTCCGG GCTCCAACTGTCTAGGAAGGCCTAGACCTCAACACCAACACCTCCAT/C/GCATTTCCCTCTTTGG CTACTATGCTTTTCCCTGACTTCTGCCTCTCCAGCTCTCTGGGCTGCTGCTTCCACCTGTTTCATCTGA CITTAGACCTCC
stSG1033 1a	107 A T ---	---	TTTAAAGCTACATGTCTGAAAGAATGATGCTGCTGATTGAAATAAAGGAAGGATGCATTTCCGG GCTCCAACTGTCTAGGAAGGCCTAGACCTCAACACCAA/CACCTCCATGCATTCCTCTCTTTGG CTACTATGCTTTTCCCTGACTTCTGCCTCTCCAGCTCTCTGGGCTGCTGCTTCCACCTGTTTCATCTGA CITTAGACCTCC
stSG1243 b	225 G A ---	---	ATTGGCAAATGGGAAAATGACACCAATCATTTGATTACAGAAAATGGTTTTATAAATCCTCCTCTTG AAATTATGTTTCAGGCCAGCATGGTAGCTTATGCCTGCAATCCCAGCACTTCGGGAGGCCAAAGGAGA AGGATCGCTTGAGCCCAGGAGTTCGACACCAAGCCTGGGCAACATAGTAAGACCCCATCTCTGTTTTT TTTAAAAAAGAAATCTGTTC[G/A]AAAGTATTTTCAGACCAAAAAGGAGGT
stSG1345 b	60 G A ---	---	AACTGACGTATCACAGGGGCAAGTATCTCTGTCATAAATTTGAACATGTTTGCTTCTTAC[G/A]CGCT TCACATTTTAGCATGGGCCAAAATTCAGGAGATGCCATGCAATGTCCATAAATGGGGCAA
stSG1345 a	54 T G ---	---	AACTGACGTATCACAGGGGCAAGTATCTCTGTCATAAATTTGAACATGTTTGCTT[G/G]CTTACGCGCT TCACATTTTAGCATGGGCCAAAATTCAGGAGATGCCATGCAATGTCCATAAATGGGGCAA
stSG1385 b	117 T G ---	---	TTAATGTCATCCAGGGGGGCCAGGGATGGAGGGGTTGAGGAGCGAGGCGAGTTATTT TGGTGGGATTCAACACTTTTCCCATGAAGAGGGGAGACTTGGTATTTTGTTG/TGTTCAATCATTAAGAA GACAAAGGGTTTGTGAACTTGACCTCGGGGGGATAGACATGGGTATGGCCTCTAAAAACATGGCC CCAGCAGCTTCAGTCCCTTCTCGTCG
stSG139	69 T C ---	---	TCGTCTCTTTCCAGTGTCTGCCAGAAGCATCCCCATGATGTTGTACCGCACAGCACATTTGTGTCT T/C/GCTTTGAGCACTTGCCACTCTGGCTGGTGTGCTGCTGCCACTGATTTGTACTGTCTTGCTGCC GATCTGGTTCAGACAAGGCTGATTCAGAGACTCCACGTGGTCAAGGCTCTGTTGTTGTCAATCCCT TGCTCTCCACTCCAGTTGGCTTCTGTCTCCAT/C/JAGTCTCTCTCCATGTGGCAACAAGATGGC TACTGTGTGCCAGGTTACGTCCTCTCAGCTTGGAATCCAGCAGCAAGAAGATGTCTCACTCCCA AAGTCCATAACTCAATCCTTGGGAAG
stSG1427	103 T C ---	---	CCCTGGAGTTTCTGAACATAGGAAGAGAATGCAAGTCATGTGTAGGTCC[G/G]CTCCCTTGATGA AATGTGGGAGAGGGGAAATAAAGTTAGGCAACATTTAGCAATCAACAGAACCCCTTCCCTATCCTACC GCA
stSG1471	50 A G ---	---	CAAAACCAAAATCCTTCCCACGATATATTACTATTTAGTCTAAGT/C/JTTTAAATCAAAAGTTGAGA ATGACGAAATCAAGAAATTTCTTCATACATAAATGCTTTCCTTAGTTCTGCAGATGGGTA
stSG1483	44 T C ---	---	CACACCCACAAGTTTCATGCTAATGCCAAGTATCAACTCTTGAGGACAAAGGGCAAAACCAAGTGTGCA [C/G]AATGTGGAGGATGTCTGTTCAGCTGTAGTTACTAATGCAGGAAAAACCAATGCAAAAGAGGAA
stSG1696	67 C G ---	---	AATGCCTGA



stSG1847 b	95 G A ---	---	TTGCAGACAACAATGGAAGCTTTAAACCCTCTTCAACACAAAATGCTACCCCTAAATGAAAGAATTT AGAGGTTAAATAAACAAGTGAGAGACC[G/A]TTACTTACATCAGTTCGGTTTATAGACATTTGAA TCATATCTGAATGACTGACTTGTTCCTCAATGTGAAACCAAAATTAATAAATTAACCTGATCACTGTGCT TCAACACAACATG
stSG1847 a	49 C A ---	---	TTGCAGACAACAATGGAAGCTTTAAACCCTCTTCAACACAAAATGCTAC[C/A]CTAAAAATGAAAAGA ATTTAGAGGTTAAATAAACAAGTGAGAGACCGTTTACTTACATCAGTTCGGTTTATAGACATTTGA ATCATATCTGAATGACTGACTTGTTCCTCAATGTGAAACCAAAATTAATAAATTAACCTGATCACTGTGCT TCAACACAACATG
stSG1897 a	83 A G ---	---	CTTAATGCCCTTCTCTCTCTGACAGGAGACACAGATGGGTAACATAGAGGCATGGGAAGTGG AGGAGACACAGGACT[A/G]GCCCCACCACCTTCTCCTCCCGGTCTCCCAAGATGACT
stSG2022 a	86 T C ---	---	TGCTTGAGGTTTCAAAATCTGAGATATCTATGGCAAGTTTATAAAAAAGTACATTTGATCAAGGTACAA TTTTAACATTAAATACATTCATCCATAATCTCACTATTTAACATTAACACAGGCCCTTTGTTGT TGTTATTTTCTCCCTACAATAATTTCTGACTCTGTAGGGACAGTGGGCCTCAGTTGGGGGGTTGAC T
stSG2076	104 C G ---	---	AAACGTTGTCCCAAAATTGTTTCAGTTTCACAAGTATAAAATAAGACTTCTGAAAAAAAGTTTACA ATTAGTTATAAACACACTTAAGAATATATTTTGACATT[C/G]ACATCAGAGTGGGGCATTTT
stSG2108 c	71 A G ---	---	TTGAGCAACAATGATTCGCGAATTGGGAGCTCCAAACCAAAAAATGATTGAGGGGCTCCACAGAGA GAGC[A/G]TAAGGGGAAGACTTTTATAGGACAACTGTAGAAGTAAGCAAGCAAGCAGTTCGTTGATTG GTTACAGTTACACAGTTGCTTATTTGGTCTATCTTATTGGGAAAGTCTGTAGTTATGTAATTGTAAG TTTGTTGGGCTGTGCTGA
stSG2108 a	49 T C ---	---	TTGAGCAACAATGATTCGCGAATTGGGAGCTCCAAACCAAAAAATGATT[C/G]AGGGGCTCCACAG AGAGAGCATAAGGGGAAGACTTTTATAGGACAACTGTAGAAGTAAGCAAGCAAGCAGTTCGTTGATTG GTTACAGTTACACAGTTGCTTATTTGGTCTATCTTATTGGGAAAGTCTGTAGTTATGTAATTGTAAG TTTGTTGGGCTGTGCTGA
stSG2141 b	173 A G ---	---	TTATCCAGGGGACAAAGCTGCACAAAGGAATGTTCTTCTATTTATTTTAAACAAATGACTGCGTGTAC TGAATCTGACTGTGTGAATAATCTCAGAAATGGCAGCACCACCTGGCATGGCGATGGTGAGGTGGGT GCAGTTCCCTGTGGTCTCTATTGCTTGAAGAGAGAGAAAG[A/G]AAGTCCCTATTATATATTTAAGGC AGTTTCAGAGCACTGGCATTCCTGTTGCTCTG
stSG2141 a	113 C T ---	---	TTATCCAGGGGACAAAGCTGCACAAAGGAATGTTCTTCTATTTATTTTAAACAAATGACTGCGTGTAC TGAATCTGACTGTGTGAATAATCTCAGAAATGGCAGCACCACCTGG[C/T]ATGGCGATGGTGAGGTG GGTGAGTCCCTGTGGTCTCTATTGCTTGAAGAGAGAGAAAGTCCCTATTATATATTTAAGGC AGTTTCAGAGCACTGGCATTCCTGTTGCTCTG



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stSG2148	50 A G ---	---	TGGGAAACAACCGGCTATAGTCTGAGTCAATTTTTAGACCGGIGATTTC[A/G]AAAGAAACAATAA ATGTGGATTAGAAAGGAAACATCCATTACTGTATTTTCGATACTTGTGATGTTCCACAGACGAGCTC ATCAC
stSG2175	68 C T ---	---	CTCAATGAGGACTCCATCAGCCAAAGCGGTTATATGGCAGATGAGCTGTACAAATCTGTTGTGTGCT [C/T]GCCGGGTGACTCAGCTAATGCTACCGGGTTGGAGCGACACCGCCAGCCACCTTTTCCAT ACCTGGCAGAGGGAAGGAGTGAAGGACCA
stSG2189	41 C T ---	---	CAAGTGGTGAAGCTGGGATTTGAGCCTGATATTCACACTA[C/T]CTACATTCCTCCAGTATAATA GGAACATCGCTAACTTTGAGCACTTAGTGTCTGAGTACTTCGTATAGGTTATCTCAATCCTACTC CAGCTTTGCGAAC
stSG2200	49 T C ---	---	TGTTGATGACCATAGAGGATGCAAAGCTCCGGGCTGGTCTGTATGATG[C/T]TTTATATTTATGTAT AATGCTTACCTGATGATACCCAAACATATTACTAGCCTTATAGATGAGGATGGATGGCAGCTTGGCTG GTCAAT
stSG2243	85 G T ---	---	CATTTCTGCCCTCCTGCTTCCCAGTACTACCCCGTCCAGCAACTGCCTCTCGTATAAATAAGTATCAA GATGGTCAGTAGAAAAG[G/T]AGAGCATCTCCTCAGCCCTGGAAGACAGTGTGGAGCTTCAGCT
stSG2257	65 A C ---	---	TCAGTGATTGTAGGAGCTGGCTAAGTCATGTCTAACTCTGTGAGGCAGGCTATCAGAAAGGCGAG[A/ C]CTGTCAAGAACTCTGCCAAGCACTGGGCTGCTCTCCTCAGGCAGAAATTCCTCCT
stSG2306	67 A G ---	---	GTCAATCAGGTAGAGTCACTGGTATAAACAACAGTAGCTATATGATATTTGGGAAGTATTTTACA [A/G]TATGCTCCCATTTGGGTTTCCAAACTGATACAACTGAGGTTGAGGTTGAACTTTCAGTGTTCACAG TTCTCCAGAGA
stSG2334	70 T G ---	---	GAAACTACCCACAGCATCATGTTAAAGAAGAGAGATGAAAGAAAAAATCCCGCAAAAAACA AAAAAT[G/T]GCAGTGGAGGGGCTGTGGAGGGGTGAATG
stSG2339	63 T C ---	---	AGAGCAGAATGGTGAATCAACAAGACCTCAAATTTGCTTGAAGTGAAGTAAGTGTGCTGAC[T/C] GTTCTCAGAGTCACCATTAACGGTGACTGTCTATTCGGCTGTGCTTCTTCAATCA
stSG2465	76 C T ---	---	CAAGACTAAGAAAGCCGCCACCCGAGTGGTCCCACTCAAAAAAGAGATTTCTGATTCACCTCAAAATG CAGAAACCA[C/T]TACAGATTAAAGAGAAACACACACACACACTTTGAGAAACTCGGCCCTTCTCTC ATCTTCAAAGTGTGGGTATGCA
stSG2549	140 T C ---	---	TTGCAGGCTTGATTTCCACAATAACAAAGTCATGTATAGAGAAATGTGAAATGATACCTTGAAACCAA GATATATAAATATTGAAGTCATTTATGCCCTTTGATGACTGGGTTAAATATGCAAAAGCAGCTAAAG GAATAT[T/C]TACACCCACCCACCCCTTTTAACT
stSG2577	123 T G ---	---	AATTGCCAAATGAAAAATCCCAGAGGATTTTAGACCAACTTTGCCCTGTTGCATTTCCAGTTTGGT CCCAATATAGGCTTCTGCAAGAAGAGATCAATGCCGAACCGAACTGTGAAAGCA[T/G]GAACAATC CCGGCCAGATTAATTAT

stSG2577	121 C T ---			AATTGCCAAATGGAAAAATCCAGAGGATTTTAGACCAACTTTGCCCTGTTGCATTTCCAGTTTGGTCCCAATATAGGCTTCTGCAAGAAGAGATCAATGCCGAACCGAACTGTGAAAG[C/T]ATGAACAATCCGGCCAGATTAATATT
stSG2700	58 G A ---			ATCTCTCGACTGCTTTAGTGGGGAAGGAATCAATTTATGAACCTGTCGGGCCCC[G/A]AGTCACTCAGCGTTTGGGGAAAATAAACCACTGGTCCAGAGCAGAGGAAGGCTACTTGAGCCGGACACCA
stSG2724	101 T G ---			AAACAAGCTTTGTCAATTTCCACTACATTTTGTGTGCTTTTATTAATATTTGCAATGCTATAATTTAATACCTATATCCAAATGCTTGACATAATCA[T/G]TTTTTAATCCTGGGTGTTGAAAGAAC
stSG2776	65 G A ---			GTGGCCGATCTTTACTTTTCAGAAAAAGCGGTAATAAATAAACCTGTAGAAAGTCTCGAATATGC[G/A]TATTGGCCCTTTGGAGTTAGGCCAGGAACCTCAAAACAAGGGACACTGCTGGCCAAACCACAAAAATATCCACTAATCCCGAATATAGTAACCCCTGCTTGTCCGAATG
stSG2791	109 G T ---			AAGGAAAGGTGGAGGGAAGAGGGAAGAAATTACAATGTTAGAAAAGAGCAACTAAAGATTATTCTATTATCTCTGAAACGGTAAACTAGCAATTTTAATAAATATT[G/T]GGGTCCACTTAAATCTATTAAGCAGAAAGTGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAAACCAATCAG
stSG2791	100 A G ---			AAGGAAAGGTGGAGGGAAGAGGGAAGAAATTACAATGTTAGAAAAGAGCAACTAAAGATTATTCTATTATCTCTGAAACGGTAAACTAGCAATTTTA[G/T]AAATATTGGGTCCACTTAAATCTATTAAGCAGAAAGTGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAAACCAATCAG
stSG2826	85 C T ---			CCGCAATTTCAACACACATTTCTATGAAAACTAAGGGTGGATCATGTACAAAACACAAAAACAAGCTCCCTCCCTCCAAAAACAA[C/T]GAAACAAAAATAAGAAAGAAAAACCCATGAAATGCCAGGTTTATTTTTTTC
stSG2850	88 G A ---			ATGGGTGCATTGTAAAGGCAAAATTAATACTTTTTTCAGGCAGGGGCTGGCAAAATTTAATGAGCTGATGTGTCCCAAGGGAGACGGCC[G/A]GGCTCACACATCCCATCAATACTCTCCCAT
stSG3031	71 T C ---			ATACTCACGGGGCTGAAGGGCAATGTGAAGAGTGAAGTGAAGTCTGCAAGTCTGCGCATTTCTGTGGTGCAGGAAA[T/C]GCCCCCTTTATTTAAATGATTCCAGACATCTGGGCAGCATAGCT
stSG3058	81 G A ---			GTCCCAACTCTCTCTCTTAGAGAAAAAACTGTGATTACCTCAACTTGAATATGAAACTGTGATTGAAAAAGTCAAAAAC[G/A]TTGAAGAAGCATCAAAAGCCAAAAAGGCAAAACTGGCTGAGGC
stSG3092	94 T G ---			CAGCATCTCCAGAACATTCCTAGAACTGAACCATTCCTGTCACTATTGAAAAACAAGCCCAAGTTCCAAATCCAAAATAATAATGAACGTGCT[G/G]GATAAACATCTCTTATGGTTCAGGCCCCCTACTTTAGTT
stSG3230	95 A G ---			AAGAAGTACTTTGGTAGCTATTTAAATAAGAGGGGGTGGGAATGAATGTCGAGATACGAGCACCTGCATCTTTAGTCAATTTGTCAAGTGGAGT[C/A]G[GTGGGGTGTCTAAGTGTCTTGAACCTGAAGTAG
stSG3245	160 G C ---			ACATCTCATACCCAGTAAGATGCAAGAAAGGAATATCTGAGAGCAAGCAGCCCTGCTCCAGGGGCCCCAGGTATGTGAGAGGCCAGTGGGGTGGCCACTTGTGTTTCTACACCCCCCTGCCATCCAGTCTGCCCCAGTACCTACCTACCTGGGAGGTG[G/C]GTACTTGGCTTAAGTACTTCATGCTTTAT

stSG3265	42 T C ---	---	AGGTGAAATGAGTACTAAATGTAGCATTTTATTATAAGGAAT/CJGCATTGTGAATAGTTTCTCAG TTTTATTATGGAAGATGATGATTTACGCCACATTCAGTGATGTTCTAAATAACACAAATCGAC AGGACTGTCTGTTACGTACAATGGAGGACAGCTTTTCAGGGCAAATGGGATTTCTTGATAATGCTAA ATCTGCTTGTACAGCTGAATTTCTGGGCTTTAIGGGCAGTGTGGTAAAAA
stSG3269 b	141 C T ---	---	TGTACTACTGTGTCATCTATCCCTTCCCTGAGCCTGGACTGCTCTTCCAAAGGGAGACTAGG AGTGAAGGGAGGAGTCTCCCAAAGTTACCCCTTAAGCTTGATAATTAGCTCCATAGCCATGCTAAA GCATGA/C/JTGTAGATCCCCAAGTCCCTGACACATTTTCTTCTAAGAAACT
stSG3269 a	24 A G ---	---	TGTACTACTGTGTCATCTATCC/JA/GJTCCCTTCCCTGAGCCTGGACTGCTCTTCCAAAGGGAGACT AGGAGTGAAGGGAGGAGTCTCCCAAAGTTACCCCTTAAGCTTGATAATTAGCTCCATAGCCATGCT AAAGCATGACTGTAGATCCCCAAGTCCCTGACACATTTTCTTCTAAGAAACT
stSG3284	130 C T ---	---	TAACTCAAGAACTTTTCAGTTACAGGAAGATTTATCTAATATTAATGACTAAATACAAAAAGC ATAAATGTTTGAAGCCATTTTAAAGTTGTTTGAATCCATATTAGCACTCAGACTTCCCCA/C/JT TCCCTAACTTTTGTAAATGCTGTAAATGGACATTTGTTGTTTGTATCTACCC
stSG3292	99 A T ---	---	GTCTCAAGTGAATCTGTAATACATTTTAAAGTCTGACTTCAATCGGTACATGAGGCTTAGACATA CACATCATTGGACAAGTGACTTAAATATCTAA/JA/JTACAAATCAAAATAGCATTTTCTAACTTCAA
stSG3323	26 C A ---	---	TAAATGTCATATCTTTAGTCTCACT/C/JCCAGTGTATCCATTTTCCCCAGCCGTAGAGCTTTCTG TTTCTGTAGATTTGCCTGTCTGGACATTTGATATAAATGGAGTTGCTGTATCATGTTCCGACTTCTCTC ACCTAGCATGATGTTTCAAGACACATCCATGCTGTAGCATGCGTCACTGCTTCATTCCCTTTAA
stSG3369	69 C T ---	---	GATCCCCAGTATTATTTCTAAATGAACITGTTGTGGAATAAAAAATCTGAGGACCACCTCAGAG GG/C/JTATAAGGGAAACCTCTTTGTCTTAGTTTCAAGGACTTTCT
stSG3398	125 G T ---	---	CAAGACTGTAAAGACGTAGGCCCTTGAGAGTGAAGGAAGGATGCTCGAACTTGGCCAGGACTCAGG CTTCAGCTTCACAAATCCCGAGGAAAGGAATGACATTTCCAAACTGTCACCTTTGTAGC/G/JCTGGGT CAAAGTCTAAAGAGGACAAAATAATAGAGACT
stSG3416 a	43 A G ---	---	TCTTACTCTGTTAACTCAGTCTGGAGTAAAGGATGCAATCAG/JA/GJCTCACTGTAGCCTGGACCTCC TGGGTTCAAGTGATCCTTCCACCTCAGCCAACTGAGTAGCTGGCCTGCAGGACAAGTCAACCATGCCCTA CCTAAGTTTTGTAGAGACAG
stSG3424	173 T A ---	---	GTAAGACAAAGTTTTGCTATGTTGACCAGGCTGGTCTTGAACCTCTTGGCTTCAAGGACCGTACCA CCTTGGCCTCCCAAAGTTGCTGATATTACAGGTGTGAGCCACTGCCCCCGCGGACTTTTAAACTGAAT GTTGAAAATCATCTGCTCTTGTCTGGGTAACACTGA/JA/JCAAGTGTCTTAACCTTTGTGAACCCAG TTTCTTATCTGTAAACAAAATGGACAAACAGAACTTTTCTCTCTCTC
stSG3436	88 T A ---	---	GTTTCATGTTAAAGATTAGGAAAGCTGTGGATGTGAGGGGTGAGGTGATGTGAGGCGCTCACAGA ATGAGTGGCAGAGAGGGGCCCT/JA/JGAAATAGCTTACTCTGTTTTCCTATC

stSG3463	103 C T ---	---	GATACAGAAGATAGTGTGGTATGGATGGATAGTAAAGGACAAATAATACAAATATATTTATTG AAATAACAAAAATGCATACACAGCTCAATGGGTCAC[C]/TJGGAAACAAACTTGCCTTGACTATATTA CTGA
stSG3491 b	71 G A ---	---	CAAGATACCTCATTGTCTAAGTAGTGCAGTGTGGCAAAATATTTCTCAGCAACAGGACGATTG AAG[G/A]GTGGAATTACTGTGCAAGGAGTACTTTACCTCCAAATAGCCTGCAATTTAGCAGTCTGA ACAACTCTCTAATCTTTTACTGGCACCTGTGGATTCTATTAACTCATTATATACTATTTCTGTGATG ACAGAAAAATAAGTTAAC
stSG3523	33 C T ---	---	TAGCATCTTACTCTAGTCTTTTGGGTTT[A]/C/TJGCATATATGTGTGTACAAACACACACACACC CCTAATTCCTCAAAATGCTCTGGCATAAGTTTATCTCTTACTGGTCTC
stSG3536	213 A G ---	---	AGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACAGCTGGAAATTAATGGAGACATCCACTT ACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTACAAAAACCAAAATACAGAATGGCTTC TGTGATACTGGCCTTGTGAAACGCATCTCACGTGCTATTCTATTGTTTATATTGTTAAATGAGCTTG TGCACCATAG[A/G]TCTGCTGGGTCTTCAGTCTTGGCATGAAGTATG
stSG3583	112 G A ---	---	GAAAAAGCTTAACATACGATCCATGTGCAAAACCCCAACAGGATCTACGAACCTCTGGCATGATCCA CATCGCTACACATACCATGCTGGAAGTGCACATCCACACAGGCAC[G/A]TAACATACACAGTACTGT CTAGTTATCAACACCTAC
stSG3586 a	60 G C ---	---	CCTAGTAACATAGTGAGACCTCGTCTCTACTAAAAATTTAAAAATCAGGTGGTGGT[G/C]ACG CCTGTAGTCCCTACTTTGGGAGGCTGAAGTAGGAGGACTGCTTGAACCCAGGAGATGGAGGCTACAGT GAGTTATGATGGGCCATTGCACCTCCAGCTTGAGACTGTTTCAAAAA
stSG3589	101 T C ---	---	ATATAGTGTGGTAGCATATAAACTCCTTTAAAGCAATCTGGCCATATCAAAGGCAAAAAAGT GTATATACCACCTGGCACAAAAACCCCAATGA[T/C]CTATTTCCAAGAATGTATCCAGATGAAA GTATCCAAACAAAAAGCTATATACAC
stSG3590 a	70 A T ---	---	GAGAGATGAGCTATTTATCTTTTACTTAATGAAGATGTAAGAAATGATCTCTGTTCTAAAAAAA AAA[A/T]TTCTCTGATGCTCTTGACCCCTGTAGGAAACACATTCAGTTTCTACACT
stSG3619	78 A C ---	---	CAGTGAGACTTCTCATTTTATAGCAAAATACATTTTGCAGCTTAAATTTCTTGAATTCATATACGCT TCTGTCAATTT[A/C]AACAAACTCCAGAGAAAACTGGGCTCTATATATTTAAG
stSG3644	40 T C ---	---	ACATATGTAACCTGCCATTAGTAGCCATATTTAGGATGAGAT[C/G]GATTGAGAGGCATGAACCAAGG ATGCGTAATAATCATTATGAAATAATAAGTTATCTGGGAAACGGCCATTTGTCCAACATTTACTAA GTGCTACTA
stSG3646 c	70 G A ---	---	CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATGATGATAACAATAATATGTCTTACT GGT[G/A]JATATTAACCTTGATACCTTGTTAAGATGGTGTCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA

stSG3646 b	55 A G ---	---	CTCATAATTAGATTGAGATTGTCATTTTGGCAAGAATATATGATGATAACAATA[A/G]TATGTCIT ACTGGTGATATTAACTTTGATACITGGTTAAGATGGTGCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA
stSG3646 a	43 A T ---	---	CTCATAATTAGATTGAGATTGTCATTTTGGCAAGAATATATG[A/T]TGATAACAATAATATGTCIT ACTGGTGATATTAACTTTGATACITGGTTAAGATGGTGCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA
stSG3693 b	85 A C ---	---	ATTGTTCCCTGAACATTCCCGTGGTCTCCCTCTGAAAGCCGATGACCATCCAACCCCTGGACTCACCT GAAATATCCTACGAGGC[A/C]TCGCCCTCCGAGACTGACGATTATTAAACCACCCACACGGAATAAGG
stSG3693 a	30 C T ---	---	ATTGTTCCCTGAACATTCCCGTGGTCTCC[C/T]TCTGAAAGCCGATGACCATCCAACCCCTGGACTCA CCTGAAATATCCTACGAGGCATCGCCCTCCGAGACTGACGATTATTAAACCACCCACACGGAATAAGG
stSG3698 b	145 G A ---	---	TC TTGCCCC TTGTGTACCCCTAGAGAGATGGCACCCCAATCCCCAGGTTGCTCTCTGACTTCCACCAT TCACTGACTTTTATTGCCAGAGGAGCTCCAGGAATCCACAGTTCTGGAAGAGAGGGGCTCTAAGTCT TTATTGGG[G/A]JAGAAATACCCACCCACCTTCCCTCACTGCAGA
stSG3698 a	51 C G ---	---	TC TTGCCCC TTGTGTACCCCTAGAGAGATGGCACCCCAATCCCCAGGTTG[C/G]TCTCTGACTTCCA CCATTCACTGACTTTTATTGCCAGAGGAGCTCCAGGAATCCACAGTTCTGGAAGAGAGGGGCTCTA AGTCTTTATTGGGAGAATACCCACCCACCTTCCCTCACTGCAGA
stSG3724	107 C T ---	---	ACCAGCCTCATGTGCAGAGGGTCTCCTGCTGGATCCCCAACTGGAGCCATCCCTGGGCTAGACTTCT GTCTCCCTCACTTCTAAATGAGTGCTCAGTGATGTGAAG[C/T]ACACAGGAGTCCCTCAGGGGCAAAA GTGGCTATGCTGGTGCT
stSG3725	104 G A ---	---	GCCAAACAAAAAGATCTTTGGAGTTTACTGACGGCAGCAGTTAATAGCACAGTCAACAGCATTTAA ATCAATATATTATTACCAGCCACAGCAACAGCCCC[G/A]JAGAGGGAATCGGGCACATAGTCATAA ATAACATCAGGGGTAAATAACGGCACATTTA
stSG3751	128 G A ---	---	CGGAAGAAAGAAACACAAATCCACAGGAACAATCTATGTTTATACCTTTTAGAAAAGATGATTTTG AGGGCTTCAGTATTTAAAGGGGAAAGCAGGCTGGAGGGGAAAGAGAGGATATGGTCCC[G/A]JT GCTGACTCCATGTGTGCAAGAG
stSG3787	49 T A ---	---	TTCTGTGCAAAAGAAATCCACATCATTTGTTGGTAGCAGAGGATCTCTTA[T/A]AAAGTTCCCTAAGA CACTGAGGGCATAAACCAACAAAAATAAAATAAGGAGTGATAGGCTAAAGCAGTATCTTCCCCT
stSG3880 b	115 G C ---	---	GACAAGAGGGAAGAGATGCGCCAGAGACAGGGCTGGGCGAGCTGGGGTGCCCTGAGTGCCAGGCGC CACCACACGTCCTGTGGTCAAGGCCCTCCTCTGGGGAGCAGGTCTA[G/C]GGCACGGAGGATGCAG GGCTGGGAGGGGACCCACCTCGGGGACCCAAAAGGAGTCCATTCTGCCCT

stSG3880 a	36 G C ---	---	GACAAAGGGGAAGAGATGCGCCAGAGACCAGGGCTG[G]CJGGCAGCTGGGGTCCCTGAGTGCCAGG CGCCACCACACGTCCTGTGGGTCAAGGCCCTCCTCTGGGAGCAGGCTAGGGACGAGGATGCAG GGCTGGGAGGGACCCACCTCGGGGACCCAAAGGAGTCCATTCTGCCCT
stSG3895	44 A G ---	---	AATCAGCCATTGTACACATTGCAGCTATGTATTGTTAGTGTGTT[G]A/GJTTTTTTTCCATTAACTAA TACATGCCCTCATAGATATATTCAAATTAGTGTATCACCATGGGAACAAGATGCTGATTGCTCAACTG AAAAT
stSG3902	104 T C ---	---	TCGTGAGACTGGAGAGACCAGGTACCAAGCACCCAGCTCTGGTGGAACTGGCTTCCTGATAACA TCATCTATTTACCTAAATGTGAACCTGCTTTCTTTCT[C]CJTCAGCTCAATAGCTTAACATCTAATTC ATGTTGCTCCCTTTGCTGGACAAT
stSG3935	50 G A ---	---	GGGTGCTGACGGACAGGCACACCCAGCAGTTTCAACAAGCAATTTGTCC[G]A/JCTAGTGTGCAGGC TCCTCCCCAGTTTCCACAGGCTGAGTACTATGGGGTCACAACCTTCCTGGACGT
stSG40	25 A G ---	---	GAGGAAGAGGTTGAAGAAGTGTGA[G]A/GJAAATATATTTAAGATTTCCTTGGGGAGAAATCTCGTGC CCAAACCTGGTGATGGATCCCTTACTATTAGAATAAGGAACAAAATAAACCTTGTGTAIGTATCA CCCAA
stSG4009	32 A G ---	---	GTGTGGGCTGCTGATGATGAATGGCGGCTC[G]A/JTACTCTTTACGGTCTTACACTTTTATGCTCCT ATGAATCTCTGATGGCTTTAAGGGCTGAACCATATCTGAAGTTTTCACACACTGCTTACA
stSG4033	123 T C ---	---	AGAAAGCCTTGGGGACAATGGCAGTGCCTTTCTGAGTAAGACATGAATGCCATCTGGAGGATCCATT TGAAACTACAGTGCAGTAACCAAGAACCTTAATGTTTCAAGCATAAAGGTACTTT[C]JTGTAAC AGGTGGCAACAC
stSG4038 a	29 G A ---	---	GCTGAGAGCACGTGTACAGCCACGCCTG[G]A/JCGCAGGCCCACTCTGTGCAATAAACATGTTCTGCC CATGTTCTCAGTCAGGAGGTTCAAGGCTCCCGGAGAGCACCTGAGGGTCCATCACT
stSG406	53 T C ---	---	ACTGTGGTTCAACAGTATTGCGTTGTCAGACTAGGAAAGCTAAACGAACAAAAT[C]JGGTTTTAGTT TTGCTGAAGACTGGCCTTATTAAATGGACAGCTTTCCTAACAAAGAGATTATTAACTTTTATCAGGTGTT AACATCTGTTTCAGGAACATGGCA
stSG4095 b	55 G T ---	---	ATCTGGGCTGAATTAGTCAAGCAGGTCAAGTACTATTGTCTGCTAGATGTATTAG[G]JATAAAAAA GTTTGCTTCTGTAATACCTTTAAAGCTTGCTTAICATCATCTGTAAACCTATGIGCTTGAGAAATCAAG CCTTTGGACTAACCCCGAGGCATTGGCCCTTCATCCTGG
stSG4095 a	27 A C ---	---	ATCTGGGCTGAATTAGTCAAGCAGGT[C]A/CJGATACTATTGTCTGCTAGATGTATTAGGATAAAAAA GTTTGCTTCTGTAATACCTTTAAAGCTTGCTTATCTCATCTGTAAACCTATGIGCTTGAGAAATCAAG CCTTTGGACTAACCCCGAGGCATTGGCCCTTCATCCTGG
stSG4120	65 G A ---	---	TGCATGTTCCACATCTTTCAACAGCAAAATGTATAATAAACTTACGTACTTATGGATAATCAC[G] A/JCTTTTTCCCTCAGAGAGCCACAGTTAAACAGCTTCCAGCACACCATTAATCCACCGAGCT

stSG4128	54 A G ---	---	CTTGGCAGATAAGGGACTCGTTTGCAGATATGACTTTCCTTTGTGTACATTTCT[A/G]TATATTATTT TACTTCTTCTGAAATGCCACATAATTTGCAATAATGATTCACCTCTTAGCTCCAAAAGCAAGTCC TTTATCAAAATGCAATGTTCCAGAGGG
stSG4209 b	128 G A ---	---	CACGAAACAGATGCAGCCTACACAGTGTGTAGGACCGAGGCTCACAACATCCACATGGCACAAAGC AGGGCCGGCCACTCCAGGCAACGAAGCCACCCCGGAACCTTGACAGGCGGCACCTCCCTC[G/A]GC AGGGGACCAACGAGGCGACAGGTGCTTTGATGCTCCGAAGAGCTGAGCTCCATTCCA
stSG4209 a	65 G A ---	---	CACGAAACAGATGCAGCCTACACAGTGTGTAGGACCGAGGCTCACAACATCCACATGGCACAA[G /A]CAGGGCCGGCCACTCCAGGCAACGAAGCCACCCCGGAACCTTGACAGGCGGCACCTCCCTCGGC AGGGGACCAACGAGGCGACAGGTGCTTTGATGCTCCGAAGAGCTGAGCTCCATTCCA
stSG4254 b	31 G A ---	---	CATTACCCAGAAGCCATGGAGGACCAAGC[G/A]CCACGGCCGGGACTCCCGGATGGCTGGGGGG GCTATGGCTCTGACAAGAGGATGAGCGAGGGCGGGGGCTGCTCTCCCCAGGGGCAGAGTGAC TGGGGGACCATGGCCGAAGAGAGGATGACCGGTCATG
stSG4301	81 T G ---	---	TGCAACAGCTCTGAGAGGAAATCCTTGGCAGATCAAAAGAGAGGGTAGTGGCTCCACACTTCCAT TTAAGCAAAATAAAT[G/A]GCTTCTGAGTAGTTGCCAGTTTACCCCAACATTTTG
stSG4331 b	71 T G ---	---	CTCACAAGGCCAACACAGAAAAGATACAAATACATTCACAGTAAATTTAGTTTATGACAC AGAGT[G]TTTTCAACAAGTTTAAAGTGTCACCTGAAGAGCATGTTAAAAAGTTTAAAGTTATCATT GGAGAGCAGATTCTTGGCCTCGCCCTTGATCTGTTTGGGGGTGTC
stSG4340	76 G A ---	---	TTTTGCAACAACATGGATGGACCTGGAGGCCATTAAAGTGAAGTAATGATACAGAAAAGTCAAAAACC ACATGTTCTC[G/A]TAAAGTGGAGATAAACAATGTGTACACCTGGACGTGGAGAGCAGAA
stSG4361 b	109 A C ---	---	TTCCCAACCATTGAGTGACAGAGCTCAGTCATGCAGAACTCAGGTTTGCATGACTCAAATTAGGCAC AAGTCTTGGAATTTCCATAAGGGATAACTGCATCTTTTG[C/A]CCTTCACAAC TAGAAAACGACTC AGCGACTTTTCTGTGAGCAAAATGTCGAGG
stSG4361 a	24 T C ---	---	TTCCCAACCATTGAGTGACAGAGCT[C/C]CAGTCATGCAGAACTCAGGTTTGCATGACTCAAATTAGG CACAAAGTTCTTGGAATTTCCATAAGGGATAACTGCATCTTTTGACCTTCACAAC TAGAAAACGACTC AGCGACTTTTCTGTGAGCAAAATGTCGAGG
stSG4376	73 A G ---	---	TTTCACTGCTACTGGTTTCGGTGTCTGAGTCTCAAACCTGCTTTCGAAGTCTTCTCCAAAGGGGAG AACAG[A/G]CTGGAACCTCGGCTCTGCAAGAGCCATTCTTCCAAAGCCATTCTTCTCAGCTGC
stSG4381	50 T C ---	---	GAAGGCCACAACACTCCATAGCCAGAGAATGACAACATACGATTTTCTTT[C/T]CAGTCTTGTAGT ATCCACAGTAGTGTCTGTCTCCATGTACAAGTGTCTGCCAGAACACCCATTAAATTCATGCC
stSG4410	79 A G ---	---	ACCAATGGTTCTGCTATGTCATCCGATATTTTGGCCGATCTGAAATACTGCAAGGGCTTAACCAT TCAACACCCGC[A/G]TGACAACGAACCCAGTGAGACTGTGAAACTCAGGCTGCAGGAGGGGTGCTTGT CAGCTGGGT

stSG443	65 C T ---	---	AGCAGATCAGTCAGCCACCTTGTCTCTCTCTCTTTAGGGAGAGGCTAGGAGTGAACACATCA/C/
stSG4430			TJGTATGCAATGAGAAATAACCAACTGGTAGGATGGGGAGGGAGGGAGGCAATAGGCAC
a	54 A G ---	---	AAATGGAATCTATCCTGGCTGCTCTCAGGTC
stSG4448	99 G A ---	---	ATGCACATTAATGAATGGCCTAACTACTGGGAACCTTTAGTAGTCTATAAGGTJA/GJATTAAACATA
			GGTAGGATCCAGTTCCTATGACAGGCTGCTGAAGGAACAGATATAGGCATCAAGAGGGCCATTTT
			CCTCCCTCCCTCTCTTCCCTTCCAGTCTTTCCATACTGTCCCCCTCCCCCCCCCAGGCTCT
			CGCCTAGCCCTGCCCTCTGGGTCACCTGC/GA/JTGGGTTAGGCCCCCCAAAAA
stSG4449	92 T C ---	---	ATTAGCCATTATCTTGCAACAATTGCTTTACTGTAACTAAGAGTACTGTACTGATGATGTTTACAAT
			TAACTTTGGACAACCTTAAACCTTA/J/CJTAGTGACATTGCTGTCTAATAATCAATACTTTCATCATA
			GGCTGAACATAATTATTAAGAGCAAAAGTTACCCCTCCC
stSG4467	42 C A ---	---	CAGACATGAGGGATGCCCTGTCTCTCTGGGACAGAGCCCTCA/CJAGATGATGCCATGTTTGTGT
			GAATGAAACTCAAACTCTTTCAGTTTTTAGAGTCATTTTCTGGTATCGAGCGACACACCGGAGAG
			CACACCTGCTTCCAAGGCTGCTGCCCTCTGACACAGT
stSG4475	21 A C ---	---	ACATGTCTTTCTGACCCAGG/A/CJATTAAATAGTTATTTAGAAGAAATGAGTTGAAGTGAGCGA
			TTAAGAGACACAACTGGACTTTTGTCTTTCTTTACTGTAGCACCAGGTTTCATG
			GTAACATCTGGGGTGGGGTGAGACAACA/CJATGAACCAATAATTAATTACAATTATACATT
stSG4477	32 A G ---	---	TCAAGGAGACTTTTAACTAGGTTAATGTGAAACGACCCATCAATGTTTGTGAGGAAAGGGAGA
			TGAAGTCTGCTCTGGGCAACGTTTGGCCTCATTGCAGTCAGACTTGGC
			TGAAGTCTGCTGGGAGCTGACAGGAGGCTGGGGGAGGCTGGGGGCCAGATGAGCGCGGGGA
stSG4531	79 C T ---	---	CAGCAGGCGTGG/C/JGCCACGCTCTGGCGTTGGTAGAAGAGGACATAGGCTGCCCTGGACTCGATCT
stSG4550			GATTCATTGACAGGGGAGACGCTGTTGTCATCAA
b	86 G A ---	---	TGCATTAAGGAATGATACGGCATAATTGGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATT
stSG4550			AAAAGAGACAGTGGGCAC/C/GJCAATTGGAGGGGAAGCGGGGAGGTTTAGAGAAC
a	85 C G ---	---	TGCATTAAGGAATGATACGGCATAATTGGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATT
			AAAAGAGACAGTGGGCAC/C/GJCAATTGGAGGGGAAGCGGGGAGGTTTAGAGAAC
			AATCAGGCACAAGCTCGGGAGAGAAAGCCAAAGGCTCTCTGCAC/JAGJATGGGAGGGAGACAC
stSG4590	47 A G ---	---	CATTGAAAAGGCATCGTTCCTCTTCATGCAAGCGAGGCTGGCTCCACAGGCAATGGTCTCCTTG
			AATCTGTATCACCAGCGCTGGT/CJCAATGTACTAGTAGCTTTCCACAGGGATTTTTTATACTATTG
			CTATAAGGTTTTATCATGAATAAAAAGCTCACAACCTCTTTTCAGCCATTGCAGATTTCACATTATCT
stSG4623	22 T C ---	---	TAATATTCCTGTTCAAGATGCTCTGGAG
			TAAAAAAAACACCCCCCCCCAAAAACACCCAGAGTTTTTGTAGTTTTTATGTTTTTCAGATTTAAAG
stSG4843	102 A C ---	---	GTATTTCTTTCTTAGCTTCTAAATTTTGAGTCATJA/CJATCAGAAAAGTCTCCCTACTCCAAGGTGA
			GAAAGGA



stSG4850 a	38 C T ---	---	GGAATCTAACTGGGAATGCCGAGGAGGAAGGGGCTC[C/T]GTGACCTTGCAGGCCACGTCAGGAG AGCCAGCGGTGCCGTGCGGGAGGTTTCCAAGGTGCTCCGTGAAGAGCATGGCAAGTTGCTGTGACAC TTGGTGGATTCTGGGTCCC
stSG4879	86 A G ---	---	AACTCTGAAGGGGGTGACCTCAACCCAGCCCTTGTTCTGTGAGGTCCTGCTTTGCAGAAATGGCCTG CCCCGGGACTGGAGCAG[A/G]CTTGGGTGAGCTCTAGGTGAGGGTGGTGGAGGGGCATAGAAAT AAACCTTCC
stSG4885	104 G A ---	---	ACTGGACTGGCTGCTTGCTGAGCGGGCTGAGCGGGCTGGGACTGGGCTGACCACTCGCTCTTCAG AGACTGCCCCCGGTGACCAACGACTACGCTCTGCC[G/A]GTGGGAAAGCAGAGCAGGACC
stSG4896	112 C T ---	---	AAACAAATCAAAACCCCAATCCCCAGCAGTCTATGTACAGGGGCCACTCCCTCTCTCTGCCATAGAGA GGTGGGGGCGAGCTGAGGAGTGGTGGGGCTGGGCACCTTTCT[C/T]CAGCCACAGGCCCTGAGG AATTAAATTGACTG
stSG4932	22 G A ---	---	ACAGTGCCGATGGTTACACAAT[G/A]TTGTAAATGTAATTAATCCCACTTACGAATGATTAATAATGA TAAATCTTATGTTTATTCATCACTACCAAAAGGCTGTGGTGAGGGGTGCTGGTTCTGGTCTCT
stSG4950	24 A G ---	---	TCATGACTCCAGGAAAGTCC[T/A/G]TCTTAGCTTCTCTCCCTCTACTTCTCTCTACATGGTCAGC ACTGTAATGTAGCTAAGATATAGTAAGGCATTGCTCCCTACCCCTACACTTCAAGG
stSG4957	136 G A ---	---	AGTACGGGCAAAACACTGGGATGGCTTCTTGACAACCTTAAGAGGCTCCGAGTTATATCTGGGTT GGGAAACACTGACCCAGCCCTTATCTTCAAGGACTCTAGTCATTGGCAAGGAGGATTCATGAGCC CC[G/A]GTGACACAGATGGGGCCCTGCTCTATATTCAAC
stSG4961	91 C T ---	---	GAAGTGCTCTGAGGAGGTGTGACTCTCCCTGGCTGACAGGGGAAGGCTTAGCAGAGCTTTGCTTAG AGGAGTAGATGAAAAGGAAAGTA[C/T]JAGAGAGGGCATTCAGGCCAAGTCAGCAACACAGACAA
stSG4967	72 A G ---	---	ACTGGTGCCTCTCAGCAGATTCAGGGTCTGTCAGGGCTGGTTACCACAACTCAGTAGGAGTGCAA GGGCT[A/G]TACCCCGGAGCTAGACAGCCTGGGTTTGAATCTCAACTTCTCCCTTTCTTGCTGTGC AACCTTG
stSG4997	22 T C ---	---	CAAAGGAGAGTAGGAGCCCCAA[T/C]TTTAAATGGTTTCTCTCCCTCATGCTATTTGATCCAAAAA CTATATACAAATTTGTAGCAGTCTCTGTATAGTTATTACACATGTTTAGAAGGGAGGAGGCAAGAA GGGATAGGGAGAATGGTATCCAAAT
stSG6312	37 C T ---	---	ACAGGTTCTACACTTTGAGCCCTTAGTGCAAAAACA[C/T]TATGCCATGCGGGAAATAAAATGCTT ATCCAGTGGAGCGCTCCCTGATGCATTGAAATATTAGGATACTCAAGCAGAAGAC
stSG6345 a	107 G A ---	---	GCTCTGGTCAAGCAAAATTCOCAGGACAGAAGCAAGAGAGTAACACACATGTATGACCCTTA CAAGTGCTTTAAGATTTAAAAATGTGATGTTTTGTCCAC[G/A]TAGTTTCAGGCAATTAAGAATAT GCAACCCAGAGAAATTTCTGTGAAACAATTTGCTCTTTGGCCTGGTGTGGACAGAAAGGGTGGCCAA ATGGATTGAGTGATGAGCAGACATG

stSG6362	88 G C ---	---	TGTGAAATGTACACTCAGGCTAACAAATACCTATTATTCTCTGGTTAAGAAAGTTTAGCAGGAGC CTCCAATGAGCACTGTATGTA[G/C]AGAAAAAGGGAAGGAGCAGGAGGAGGAACACAGATCTGCACAGA AT
stSG8010	62 G T ---	---	CACATCTGTGTTTCTGGAGCAAGGGAACACAGAAAGGCCAGGAGTTTGGGTGTGCACCTGG[G/T] GTC TTCAACTGGGTGGAACCAAACTGAGTCCTTGAAGTCTCGCTCCTGAGGCTGCAGAAAGAAATAGA TGGCTT
stSG8022	53 G A ---	---	AGCTCCTGACTCCCTGTTACGTGACGTGATGTTGGTAGCCTGAAATGGACCAC[G/A]GTGGGAGTTAT TTACACCATGGAAACTGGAAACTCTACAAATCAATGCGTTTATTCTTTATTTTCAGAGGGCAGGTT TATCAGCACACGCTGTATCTCC
stSG8032	67 G C ---	---	TGATTGTTAGGGATAAGTGGCATTGTGTTTACAAATTACTTCCAAAGAAATTCAGAAAAATTTGTGTGTT G/CJTGGGAGGCAGGGTAGCAAGATAAAAAGAGGGAGGACAGCTGGGGTTGGTAAAA
stSG8064 b	46 C A ---	---	AGCTGGCTCTTCTCTGTGCGTGTTCGGAGGCTTCACGTCTCG[C/A]CCGTGGTCCCTGGGTGGCC TGCAGGACCAGGGGTGGGAAACAATGCCAGGGAGAAATTCCTGTACATCAACACAGGGAACA
stSG8064 a	23 G C ---	---	AGCTGGCTCTTCTCTGTGCGT[G/C]TTCGGGAGGCTTCACGTCTCGCCCGTGGTCCCTGGGTGGCC TGCAGGACCAGGGGTGGGAAACAATGCCAGGGAGAAATTCCTGTACATCAACACAGGGAACA
stSG8072	59 A G ---	---	CACCATCATACATCGAGTAGGCTGAGGAGCAGGAGGGGTGGGTCTTCTGTACATCAACACAGGGAACA AGAGGCAGAAGGAAGTCCGAGTATTAGTGGCCGATGAGGCTTCAAGCCTGTGCTGTTCAAAA
stSG8100	40 A G ---	---	ATACACCCACACACCCCACTCAACCTTGATCAAAATCC[A/G]AAGTGTAACATAAGTATAAAGTAAAGT ATCATGACTAGTTAAAAGATAGCAAAATACCATAAGGTACAAGTTCAAGTATTAGTATAACAAGTAT CTGAGTAACAAATGTCCTTGGAAATGGG
stSG8102	138 T C ---	---	AAGGCTCCTTTGAAAGCATGGTTTATTGTTCATTAACTTGTTCTCAGCTATACTGAAATGATGATT GACAAATAAACTTGCAATATATTGAGATGTACAGTGTGATGATACATGTATGTATACAATGTGAAA TGA[T/C]TGTCAATATCAATAATCAATAATTGGTATATTGGTTAGGAAATGTGATGGT
stSG8105	110 A G ---	---	CAGTGGTCTCAAACTCCAGCGTACACGAGGATGGTCTTGCTTGTTAATACACAGATGACTAGGCC CACCTGGGAGTTCCTGTTGGAGTCTAGGCCTGAGAATAT[C/A]GTTTCTAACAAGTTCCACAGGTGA CCCTGAGGCTCTTGAGCTGGGGAACATGCTTTGAG
stSG8130 b	96 T C ---	---	GTGTGTACATCATTTGGGAATGGAGGGAATAAATGACTGGATGGTGGCTGCTTTTAAAGTTTCAAATT GACATTCAGACAAGCGGTGCCTGAGCCT[C/G]TGCCCTGCTTCAGATCTTCACAGCACAGTTCC
stSG8130 a	36 C G ---	---	GTGTGTACATCATTTGGGAATGGAGGGAATAAATGAGTGA[C/G]TGGATGGTGGCTGCTTTTAAAGTTTCA AATTGACATTCAGACAAGCGGTGCCTGAGCCTGTCCTGCTTCAGATCTTCACAGCACAGTTCC
stSG8145 b	124 T A ---	---	TTGTGGACTTCAAATTCCTTCTCAGATTTTAAATGACATTATGCATGTACATATTTTAAATTT AGACACATTTTAGAGAACACAATTGTGAACACAAATCTAAGAAATGAATGAGATGT[T/A]CTGAAA TCTGATTCAAACACTTATCTTAACTGACTTCTGTCAATCTCTCTGCTCTGTGAAGG

stSG8145 a	97 C T	---	---	TTGTGGACTTCAAAATCTTCCCTCAGATTTTAAATGACATTATGCAATGTACATAATTTTAAAAATTT AGACACATTTAGAGAACACAATTGTGAA[C/T]ACAAATCTAAGAAATGAATGAGATGTTCTGAAA TCTGATTCAAACACTTATCTTAAACTGACTTCTGTCAATCCTCTGTCTGTGAAGG
stSG8150	36 A G	---	---	ATTGTTCTTGCAATTGCTTGGATTTTTCAGAAATAGT[A/G]ATAAATAATAACGGGAATCCTAGGCAT TCGTGTTTTCCTATGTTTAAACAGGATTTTCTCTAATGTTTCGCTATTAAATACCATGCAGGAAAT GGGAAAT
stSG8340	30 C T	---	---	AGAGGATTATGGAGAGAGCTGGGCAGGAT[C/T]CAACATTATGACCCTGAACCTCCAGAACTGGAT TCACTAGAGGAGAGAGAGAAAAACGCTCATCAAAA
stSG8466	111 G A	---	---	TGTGTATTGGGTGACTGTAGCCTAAGGATAAATGAAATAAATGACAGCAATGTTATAAGCAGTGGGA GGAGTGAACCTGGGAATACTTGGTTACAAGGTATTTGCACTACCT[G/A]JTGAAAGCAGCACAGCATTTAT TTGAAAG
ESTD-ACE	-- -- --	---	---	GATCAAGCAGTGCACACGGGTACGATGGACCAGCTCTCCACAGTGCACCATGAGATGGGCCATATA CAGTACTACCTGCAGTACAAGGATCTGCCCGTCTCCCTCGTGGGGGCCAACCCCGCTTCCATGA GGCCATTGGGGACGTCTGGCGCTCTCGGTCTCCACTCTGAACATCTGCACAAAATCGGCCCTGC
ESTD-ADA	-- -- --	---	---	ACCATCTTATACTATGGCAGGTAAGTCCATACAGAAAGAGCCCTCTCTCCCTGGGATTTAGTGGGGTC CCAGCTCCACCCAGAGGCCCTGGGAAATCCAGGGTCACTGTTCCTCTCCTGCTCCCTGTGGGAAT CAAGCCAGCTCCAGGCCAGAAAGTGGGACTGTGAGGACATGGAGGCTCGGCACTGAGCTGCAGACCCC GCAGACCAACTCCTGAGCTTCTGGGCTCTGAGCTGTGCTC
ESTD-AK- 168	-- -- --	---	---	GGGAGTGACAGCTAGAGCACCAAGGGGGCTCTACAGCTGTGTCTCTCATGGAGGACAGGCTTCTGCTC ATTCTGG
ESTD-ALB	-- -- --	---	---	AATCCAGCACCTTTAGGAGGCTAGGCAGGCATATCACCAGAGTCAAGGATTTGAGACCAGTCTGA CCAAATGTTGAAACCCCATCTCTACTAAAAATACAAAATTAGCCAGGCATGGTGGTGCATGCCTGT AATCCAGGAGGCTGAGGCAGGAGATCGCTTGAACCTGGAGGCGAAGTTGTTGGTGAGCCCGAGAT GGCACCATTGCACTCCAGCTGGGCAACAAGAGTAAACTCTGTCTTC
ESTD- ANT1	-- -- --	---	---	TCTCCTGTCACTTCCCTACTCCATTAGTTCAAGGTCAAGTGAAGAACTGGGGCAATTAAACCAAGTAATCA TGGACTGCCCCAACTGCGAAACAAGAGGGCGCAGTGGAGCAGGAGTATTATGCTACGCGGTTACCTT TTTTTATGAGGACCGAACTGAGGCTGAGCTCAGATGATCCTGT
ESTD- APOA2	-- -- --	---	---	CCAGGTGTTGTGGCACGTGCCTGTATCCAGCTACTCGGAGACTGAGGCATGAGAATCTTTTGAAC CGGGAGCGGAGGTTGCACTGAGCTGACATCGCGCCACTGCACCTCCAGCCTAGGTGACAGAGCAAG ACTCC
ESTD- APSB	-- -- --	---	---	GGAAAGAAATGGAGCCTGTGGGAAGGAGCGCTCCAGGGGTGGGCTTTGTGGCAAGCCCCCTTGCTGA AGCAGAAAGGGCGTGAAGAACCGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCATGAAGCT GGCCAGGGGACACACCAATGGACAAAGCCTCTGGATGGCTTCGACGTGTGGAAACCATCATGAGTAA GGAAAGCCCATCCCCAGAAATTGAGCTGCTGCATAATATTGACCCCAAC

ESTD- AT3a	--	--	---	---	AGACCTCAGTTTCTCTCTGTAAAGGGAAGTTTGTCTTGATCTCCATGGGCCAGCCAGCACTG GTGCCCTGTAGTCTGTATCAGGTAGAGGAGATGGACAGGTGGAGAGAAATTTGAAAGGGCATTG GAATTCAGAGCAAGAGACAGATATTAAGAGCTGGGAAATGIGG
ESTD- B3AR	--	--	---	---	GGCTGCAGGGGTCCGTGGAGGGCCCTAGCCGGGGCCCTGCTGGGGTGGGGTCTGGCCACC GTGGAGGCAACCTGCTGTCTCGTGGCCATCGCCGGACTCCGAGACTCCAGACCATGACCAACGT GTTCTGACTTCGCTGGCCGACGCCGACCTGGTGATGGGACTCCTGTGTGTCGCCGCCGGGCCAOCCTT GGGC
ESTD- BA511	--	--	---	---	GGGCAACATAGTGAAACCCCATCTCTACAAAAATACAAAAATTAGCCAGGTGTGGTAGCAAGTGC CTGTAGTCCAGCTACTTGGAGGCTGAAGTGGGAGGATCCCTTAAGCCTGGAGGTGGAGGCTGCAG TGAGCCAAGATGGTGCCACTGCA
ESTD- BCL2	--	--	---	---	AGCTGGATTATAACTCTCTTCTCTGGGGCCGTGGGTGGGAGCTGGGGCGAGAGGTGCCGTT GGCCCCGTTGCTTTTCTCTGGGAAGGATGGCGCAGCTGGGAGAACAGGGTACGACAACCCGGGAG ATAGTGATGAAGTACATCCATTATAAGCTGTGCGAGAGGGGCTACGAGTGGGATGCGGGAGATGTGG GGCGCGCCCCGGGGGGGGCCCCGCCACCCGGGCATCTTCTCTCTCCCA
ESTD-BCR	--	--	---	---	CAGTGGCTGAGTGGACGATGACATTCAGAAACCCATAGAGCCCCGGAGACTCATCTGCGCAAGA GACCAAGAGGTGAGTCTGTTGTCGGGAAAGGGAGGAGGAGGTGACAAGCTAACTCTGCTTCAAA ATCAACCATCCGGTGGACACTGTGTGGTGCCATCTGCCTGGCACA
ESTD- BRCA1a	--	--	---	---	AAGAAGAGAAACTAGAAACAGTTAAAGTGTCTAATAATGCTGAAGACCCCAAGATCTCATGTTAA GTGGAGAAAGGTTTTGCAAACTGAAAGATCTGTAGAGAGTAGCAGTATTTCACTGGTACCTGTGAC TGATTATGGCACTCAGGAAAGTATCTCGTTACTTGAAGTTAGCACTCTAGGGAAGGCAAAAACAGAA CCAAATAAAT
ESTD- BRCA1b	--	--	---	---	ACTAAATGTAAGAAAAATCTGCTAGAGGAAACCTTTGAGGAACATTCATGTCACTGAAAGAGAA ATGGGAAATGAGAACATTCCAAAGTACAGTGAGCACAATTAGCCGTAATAACATTAGAGAAAAATGTT TTTAAAGAAGCCAGCTCAAGCAATATTAATGAAGTAGGTTCCAGTACTAATGAAGTGGGCTCCAGTA TTAATGAA
ESTD- BRCA1c	--	--	---	---	ATGCATCTCAGGTTTGTCTGAGACACCTGATGACCTGTAGATGATGGTGAATAAAGGAAGATAC TAGTTTTGCTGAAATGACATTAAAGAAAGTTCTGCTGTTTTTAGCAAAAGCGTCCAGAAAGGAGAG CTTAGCAGGAGTCTTAGCCCTTTACCCCATACACATTTGGCTCAGGGTTACCGAAGAGGGGCCAAGA AATTAGAGTCTCAGAAAGAGAACTTATCTAGTGAGGATGAAGAGCTTCCC
ESTD-C1R	--	--	---	---	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCTCCCTAATTTGCTCCGGGAAGCACATTCATCAA CCCAGTCAGTTTGGGGACAGCCATGCACCTGAGCCTCTGTAGCCTTTCAACCATGCATTCCATCTAA GCTCTGCAAAAT

ESTD-C7	--	--	--	---	---	ATATCGTGGCCTTAGTTACCTAGAGCTGGACAATCCTGCTGGA
ESTD-CB22	--	--	---	---	---	GGCAAGTTTTATTGATAGAGAGGAATCAAAATATATGGCAATGAGGAGACATCACCTGGAATGTTAG GCAGTGCCTAACTGGGGATGGACAGACAATGGCAGTGCCAAACCATAGGCGGATACAAAAGAC AGGCAAGGAAGGGTAGAACCATCAAAGAGGAATAGGCTGGTGACCCAAAGCAAGGAGGACCTAG TAACATAATTGTGCTTCATTATGTGCTTTCCCGGCTTCTCTCACACAC
ESTD-CB23	--	--	---	---	---	TAGAACCATCAAAGAGGAATAGGCTGGTACCCCAAGCAAGGAGGACCTAGTAACATAATTGTGC TTCATTATGGTCTTTCCCGGCTTCTCTCACACATACAGAGCCCTACAGGACCAGACAGCT CTCAGAGCAACCCTAGCCCCATTACCTCTTCCCTTTCCAGAGGACCTGAAAAACGTGTTCCGACCCGA GGTGGCTGTGTTGAGCCATCAGAAAGCAGAGATCTCCACACCCCAAAA
ESTD-CB24	--	--	---	---	---	ACCAGGACCAGACAGCTCTCAGAGCAACCTAGCCCCATTACCTCTTCCCTTCCAGAGGACCTGAA AAACGTGTTCCACCCGAGGTGCTGTTTGAGCCCATCAGAAGCAGAGATCTCCACACCCAAAAG GCCACACTGGTATGCTGGCCACAGGCTTCTACCCCGAACCGTGAGCTGAGCTGGTGGGTGAATGG GAAGGAGGTGCACAGTGGGTCAGCACAGACCCGAGCCCCCTCAAGGAG
ESTD-CB25	--	--	---	---	---	GTTTTCTTCAGACTGTGGCTCACCTCCGGTAAGTGAGTCTCTCTCTTCTCTCTATCTTTCGCCGTG TCTGCTCTGAACCCAGGGCATGGAGATCCACGGACAGGGGGCTGAGGGGCCAGAGCCACCTG TGCACAGGTACCTACATGCTCTGTTCTTGTCACAGAGTCTTACCAGCAAGGGTCTCTGCTGCCACC ATCCTCTATGAGATCTTGCTAGGGAAGGCCACCTTGATGCCGTG
ESTD-CB27	--	--	---	---	---	TTTTCTGTTTCCCTGAAGATTGAGCTCCCAACCCCAAGTACGAAATAGGCTAAACCAATAAAAAAT TGTGTTGGGCTGGTTGCAITTCAGGAGTGTCTGTGGAGTTCTGCTCATCACTGACCTATCTTCTGA TTAGGGAAGCAGCATTCCTTGGACATCTGAAGTGACAGCCCTCTTCTCTCCACCCCAATGCTGCT TTCTCCTGTTTCATCTGATGGAAGTCTCTCAACACCAATTCCTATACC
ESTD-COL2A1c	--	--	---	---	---	AGAATGTATATAGTCTCAAACCTGGCCATCTCCATTTTCAGTCCAAAAGTTATACAGCTAGACAACA GTGGTGACATACGTTGCTATTTATGCTCTCTTCTCTGTCACTTTCAGGGTGTTCAGGTGGAAGGT GAACAGGTCCCGCTGGTCTCCAGGCTCCAGGTAAGTCACTCAAGCATATACATACTGCCTTTG GTCAGCCTATTGAGCTGTAATCACCATACCGTACCT
ESTD-COL2A1d	--	--	---	---	---	TGAGAGAACACCTAGTCTCCATCTCTCTCAATGGCAAGAAAGTTAAGTGACCTATCTAGGGC AATAGACTGAGTTGCTGGGACCTGGAACACTGGACTTCTTCTACTGCAGCAGACAAGACTTACCC AAGAGAGATTAAATGGCAAGATATACAATACAATTTTATTTGACCAACACACTATCATGGAACAGC ATT
ESTD-CPT2	--	--	---	---	---	GCCGCAATGCCCGGGAGTTTCTCCAATGTGTGGAGAGGCCCTTAGAAGACATGTTTGTATGCCCTTAGAA GGCAATCCATCAAAAAGTTAACTTCTGGCGAGATGAAAAGCTACCATCTTCTCATCATGAAAC TGGGAGGCCGGGCATAGTCTCATGCCTGTAATCCAGCATTTTGAGAGGCTGAGGCGGTGGATCAG TTGAGGTCAGGAGTTTGAGACCAACCTGGCCCAACAT

ESTD- CTLA-4	--	--	--	---	---	ATGGCTGCCTGGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCTACCAGGACCTGGCCCTGCAC TCTCCTGTTTTTCTCTTCATCCCTGTCTTCTGCAAGCAATGCACGTGGCCCGCAGCTGCTGTGGT ACTGGCAGCAGCCGAGGCATGCCAGCTTTGTGTGTGAGTATGCATCTCCAGGCAAAAGCCAC
ESTD- CYP2D6	--	--	--	---	---	CAGGCGAGGCTGGTCGAGGTGGTCACCATCCCGGCAGAGAACAGGTCAGCCACCACCTATGCACAGGT TCTCATCTATTGAAGCTGCTCTCAGGGTTCCCTTGGCCTGAGCAGGGCCGAGAGCATACTCGG
ESTD- D11S1873	--	--	--	---	---	AAAAAACATTTTAACACCTTTTCAATCATATACACCATAAATTTCCATTTTTCACATAAGTCAGTT TGAGCTGAGTTTCCAAATTACTTGAATCTAAATGTCAATACTGATTAAATGCAAGTTCAACAGACA ACTTTCCCAAGCATCTACGATCAGAAAGGTCAAAATATTACATATCTGGATTAAATATGCCCCATAT CTGCATGTC
ESTD- D17S33	--	--	--	---	---	CATCCCAAGCCCATCCTCTTAGCCACTGGCATTTTTTGGCGCCTCTGACAGATACACTCAGGGCCGT CATGCTGCACACATCCAGGGGGCGCCCTACCCTTTGTAGTCCATGGGAAGGCTCCTCTGGGGCGGTG GGTTGTGTGGCTATGTGTGTCTTGTGTAGACGGGGCTTTGGTTTCAGTTGCACCTATTGCGTTATT GCAGATTGCTTTGTCTTCCACCTGAGCGAGCCTC
ESTD- D18S8	--	--	--	---	---	TTTGAGACCACCCTGGCCAAACATGGCGAAATCACATCTACCAAAATACAAAATAGCTGGGTGT GGTGTACATGCCTATCGTAATCCAGCTACATCGGAGGCTGAGCAGGAGAAATGCTTGAACCCA GGAGGCAGAGCTTGCAGTGAGCCAAAGATCACACCCTGCACCTACAGCCTGGGTGACACAGTGGAGA CTCTGTCTCAA
ESTD- D3S11	--	--	--	---	---	AACTGATTAGAACCCTGAAAATACATAATTTATCTGAAAAAGTCGAGTTATTGGCTCATCACATTGG AATTTTGCATCATTAATAAATCCAAATAAAGTACACTGTATAAAGAAATTAACAGAAATATCATTTGT TTATCAAACATTTATCATCTATTTTATTGGTAAGCCCATACTAAATCTAAAGCATGTTTCTGAAAG TTTA
ESTD- D3S12	--	--	--	---	---	AGGTTCCACATTATTGCTGATTTTGTGATGTTTCCAGGAGCCTTGATGTCATTCGTATCTCCTCAG GTATCCACCTTGAGACGTACTTTTCAAAAACCTCTACAGCCGTTGTTGTTATTAAATCAAGGTTGA ACATAAAGTA
ESTD- D3S2	--	--	--	---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCCTGC TGAGTCTTATTCAAAACTGACAGCCATTTATGCCACCTGAAATATGGTCAGGTTACAGCTGATTCCOC AGAAAGTGAACATACCTGCTCCTAGAACCCAGAGTCATCTGGATGTTCTGTTCCGGTCTTCACGATGG CAGGATGAATATAATAATCTGTCCCTTTATTGGGAAGGATGCCGGTATGT
ESTD- D4S338	--	--	--	---	---	TTTTCTGTTTACCTTGTTCAGATCCTTCAGAGGAATCCCTATATATGGCAGGTATATGAAATGATTTT CTTAAACAATAAAGCTGAAAGTCCAAAATTTACTCCTTGATCCATGGACTGCAGATAAATGTTATTT TAGCTGTGAGAAAACAATACTAATCTTGATATGTTTCATCAGAGCCCTTGGGTGACCCAGGTGTTT GCCAATAAGCAGTAATATTTTGAGAGGAATCTTTTTCATGCAGTAG
ESTD- D4S95	--	--	--	---	---	CTTTTCATGCACGATAGGCTTCTCTACTAATACAGAAATTTTGAGAAAGAGCAAAACAACTTTCAAGG ATAATGGGCAATCATTCTTTCTCTTTCTTTAGAGTCTACCGG

ESTD- D7S399	..	--	---	---	---	TGAATCTTAATTGCTATCTCTACAAATGTATAAATCTGAATCTGACATCTAGCCACCTCCATAGAT AACTGCTAGAGACCCAGTCTCTACATCATCTTTTACAAACATTTTCATCCATGAGACTCCATAGTAG AATATTTGAAGAAACAAACATGACAAACATTTTC
ESTD-DM	..	--	---	---	---	GTGGGACACCGAGGGCTCCAGGCTGGGCGCTTGACGTTGGCTCAAGCAGCTGCTCGGCCTCCACT TCCATGGGTGGGGCTGGACCTCACTGTCCCTGGGAGAGGAGGAGTGGGAGGGAGACA GAATGCTGATTATCTGGTGAGAACCAAGAACTTCTGGCCTGTGGTAGGGGAGCTGCTTCCAAAGACC TCCTGATTGAGGAAGGGAGCAGCAGAGCGAAGAGAACAGAGT
ESTD- DRD1	..	--	---	---	---	TCCCCAGCCCTATCGGTATATTGGACTATGACACTGACGTCTCTCTGGAGAAGATCCAAACCCATCAC ACAAACGGTCAGCACCCAACTGAACCTGCAGATGAATCCTGCCACACATGCTCATCCCCAAAAGCT AGAGGAGATTGCTCTGGGCTCGCTATTAGAAACTAAGGTAC
ESTD- DRD2	..	--	---	---	---	TCTGCCTTTGGTGACGAGGCTGCCCGCGAGCCAGGAGCTGGAGATGGAGATGCTCTCCAGAACCA GCCACCCGAGAGGACCCGGTACAGCCCCATCCACCCAGCCACCACTGACTCTCCCCGACCCCG TCCCACCAACGGTCTCCACAGCACTCCGACAGCCCCGCCAAACAGAGAAATGGGCATGCCAAAG ACCAACCCAAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATG
ESTD- DRD3	..	--	---	---	---	AAGACGATGGCCAGGATGAGCGCGCAGTAGGAGAGGGCATAGTAGGCATGTGGCGGGCTGGCTGG CACCTGTGGAGTTCTCTGCCCCACAGGTGTAGTTCAAGTTGGCCACTCAGCTGGCTCAGAGATGCCATA GCCAGAGGGAGGTGCGTGATGCCAAGGGGCTTCTGTGAGGAGA
ESTD- ERB82	..	--	---	---	---	TCTTTAGGATCCGCATCTCGCCTGTTGGGCATCGCTCCGCTAGGTGTCAGCGGCTCCACACGCTGG GGTAGGGGGTGGTGGTCAAGTCCGGGGGGCGGTGCAGACCCACGGGGCTGGGAGGACTTCACCC CGCCTCACCTCCGTTCTCGCAGCAGTCTCCGCATCGTACT
ESTD- ETS2	..	--	---	---	---	ACTCACAGTGCTTTTAAAGTAAATGGTCGAGAAAGAGGCACCAAGGCCGCTCCTGGCGCCTGGCA GTCCGTGGGACGGATGGTCTGCTGTTTGAGATTCTCAAAGGAGCGAGCATGTCGTGGACACACAC AGACTATTTTAGATTTTCTTTTGCCTTTTGCAACCAAGGAACAGCAAAATGCAAAAACCTTTTGAGAGG GTAGGAGGGTGGGAAGGAACAACCATGTCATTTTCAAGAAGTTAGTTTG
ESTD-F2	..	--	---	---	---	GATAAGTACACTGAGGCCCCAGGAGTTATTGCCTAGTAGCCCCAACTGTGCATGCACGCTTAACCTCT GCACCAATGGCCTCCAAAGCCCCGTAGGGGAACTAGGGGGATCTAGGGGATGGGTGAGGAATGGCCC AGCCAGTCCCGCGGTGCTGGGTCCCAACAGAGGAGGGCCGCTGGAGGAGGAGACAGGAGATGGGC TGGATGAG
ESTD-F9	..	--	---	---	---	AGATCCTGATGATTTTTTCTATTTTTTCTAAATGTTTTTACAGTTTGAAGTTTTAGATTTATGCCCCA TGCTCCATTTTGAAGTTAATTTGTGTAAGTATGATGTTTAAAGTCAAACTTCATTTTTTTTTTCCATA GGTATGTCCAATTTATCCAGCACAAATTTGTTAAACAAAAAAC



ESTD- G2H	--	---	---	---	---	CGCAGACCGGTCAAGTGGGGTCTGGAGGTGGAGGGAAGGAGGGAAGTGGGGTTTAGGGACT TTCCGGGGTGAATTTCCCGTTCTGTCTGCAGAGAAAGGCGGGAGAACACAGAGCCAACTGGCTAA GTGTAAGGGACCTCTGGTCGCAACGTTGTCTCTGCTGCCCTGTTCAGCTGTCTGTCTGCCGACGTGCA CTCTGTCCCGGAAATCCGAGAGCT
ESTD-GCK	--	---	---	---	---	GTTTTATGCATGGCAGCTTAATGACAGGATGGTACCCCTGCTGAGGCCACTCTCTGGTACCATGAC AACCACAGGCCCTCTCAGGAACACAGTAAGCCCTGGCAGGAGATCCCCACCCACACCTGGCTGG AGCAGGAATGCCAGCGGCCCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGACACAGTCACC TGCAGCCTAATTACTCAAAAGCTGTCCCCAGGTCACAG
ESTD- GNAT2	--	---	---	---	---	GACCCGTGAGTACCTCCCTAGTGAGCAAGATGTGCTCCGATCCAGGGTCAAAACCACAGGCATCATTTG AAACCAAGTTTTCCGTCAAAGACTTGAATTCAGGTAAGTGCATGGTTCCTTAGG
ESTD- GPPK2L	--	---	---	---	---	AGTCTTCATCTGCGGTGTCCAGGTAGATCCCTTTACCGCGCGAGAACTGCTCGATATC
ESTD- HRAS	--	---	---	---	---	CTGGGCTGCCCCGACGAGCTGTGGCACCTGGACGGCGCGCCAGGCTCACTCTATAGTGGGGTCG TATTCGTCCACAAATGCATCTGGATCAGCT
ESTD- HSD3B1	--	---	---	---	---	TTGGAAGTTCTCCACTGTTAACCCAGTCTATGTTGGCAATGTGGCTGGGCCACACATTCTGGCCTTG AGGGCCCTGCAGGACCCCAAGAGGCCCAAGCATCCGAGGACAGTTCTACTATATCTCAGATGACA CGCCTCACCAAGCTATGATAACCTTAATTACACCCTGAGCAAGAGTTGGCCTCCGGCTTGATTCC AGATGGAGCTTCCCTTATCCCTGATGATTTGGATTGGCTTCTGCTG
ESTD-HT2	--	---	---	---	---	GGGCTAAATTTCCGAGCAACTTGCATAGACTGTTTTATTGACTTGACAGGATTGCTAGAGATAGG CAGGAGAGGAAGATGTGTACAGTTGTGCAGAGAGAATAAAAGGATAACCTGGGTTTTCTGTGC TTTGCTTCTTCACATCCCTGGGGAGTTAATAGCTGCAATTTTCAAAGAACGGTATACAGGGACAGCA AAGCGCAGTCGTGAAGTTTCAAACAAGACACACCTT
ESTD-HT4	--	---	---	---	---	ACCAACGAGCCGGATACAGACACTCTTAAGTTTTGCCCTAAGGCTCATTCAAATCATTAGGCATTTT CTGATAAACTAGGTTCTTGGGTGCTTCTATCGGCAAGAAATGCGTACTTATTTGAATAGTAGAGGTAA ACCACAGCCCCAAGAGTCACTGAGACTGGCAGCTTCTGCAGAGGGGTGAACCCCGTAGCCTAAA TGACAGCCGAAGAGGCGCGAAGACATGCAGATGTGC
ESTD-HT5	--	---	---	---	---	AACACAAAGCCCCAGCGAGAATTGAACCTCGGACCCCTGGTTACAAGACCAGTGTCTAACCCCT GAGCTATGAGCCCTGCTGCTGTGGTTTTCTTCCCTTCTATATAGATTGATGTTATGCTCCTA GCATTCGGGTACCGAATAGGATGTTAGCTTGAGTAAATTCAGGATATTCCTTACAAAATGAAA ACATTTCTGTGCTCTGTAATCCCTCGAAAAGTTCT
ESTD- IGFBP1	--	---	---	---	---	ACCCAGTGGAGCCCGCTCATTCACGGTCTTGGCAGGAGGTGCCCTGGGAGAGAAGGAAGATGTTTC CAGGGCACACATAGCTTAGTGGAGACTC



ESTD- IGHV4-6	--	--	--	---	---	TTTACTATTTCATGGATACAGAAATTGTGGGAGTCACTATATTCCTATGAACAAAAATTCAGATTT CAGTGTTAAGTAATGTTGCCTACATTGTGTGAGTGACGGGAGTGGTGATCCGAGAGTGTGGTGGG TGCACGGACATAATGATTTCAGAAAGCAATATGGAAGATGAGTATCTATGATACGAACTGAAAGT ATGTAATACTTCACAAAATACTAATAACGGAGTTGAATATAAAACCCA
ESTD-IL1A	--	--	--	---	---	CAAAGTAAGCACCCCAATAAATGTTAGCTATTACTATCATTAATTATTATTATTATTTATTTTGTG AGATGGAGTCTGGCTCTGTACCCAGGCTGGAGTGAGTGGCACAATCTCGGCTCACTGCAAGCTCTG CCCTCTGGGTTTCATGCCATTCTCTGCTCAGCTCAGCTCCGAGTAGCTGGGAATACAGGCCACCCGCCACT GTTCCCGGCTAAATTTTGTATTTTGTATTTTAGTAGAGACGGAGTTCACCGT
ESTD-IL1B	--	--	--	---	---	CCACTACAGATGGATAAATGGGTACAATGAAGGGCCAATAGCCCTCCCTGCTGTATTGAGGGTGT GGGCTCTACCTGGGTGCTGTCTCTGCTCAGGAGCTCTGTCAATTGCAGG
ESTD- KRT10	--	--	--	---	---	CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTCCATGTCAGTGTACCTTTTGGCAATATT AAAGGAAGAAAATGCATTTAAAGTAACCTGCTAAGGTTTTTCCATTAAACCACATTACTTCTAAG AGAACTGTACATGACAAAATATTGCCATTACATGAGATCAACTATGAGTCTGCTTTTAAATAGTCTC TGCCAGATACATCTCCCTATATAAGTTATAACAGTATTGATA
ESTD- KRT8	--	--	--	---	---	ACCTCACCCCTCCCTTAGCCCGTGGGAAGCAGGAAATCTCTCCAAATCCATGAATACACATCGG ATTGGACACCTTGAGAGTCTTAACAGCAGGGCCTGACATGAGACCTCAGACAGAACTTCTAGAGTT TGCTAGAGGTCAAGGTCAGACTAAAGAGGGGCCAGAATGTTAAGTACAAAAGTGAGGCCCATAG GCTGCCTATCTCTCCGCTCAGGTTTACCAGTCAACATTGACACA
ESTD- LF79	--	--	--	---	---	GGGTGATTTTGAGGCTCAGTTAATATTTCAAAATTTGAACCGTAGCAAAACTGCATTGGTATTAGA AAAAATAAAATTTCCAATATGTAGTGTGTATACCTGCCTCTGCCATGCAGCATCATAGCCTGT GGGAACCGAGGGCTTCCCTTACCACCCAGA
ESTD- LMP2	--	--	--	---	---	TACACACTTTCCTTACCCATTCACTGAAACGACTCGCAAACTGGAGCCTTGTAGGAATGGAGTTGA CCTTCCCAAAAGCCACTATGATAAGCTATTGGTG
ESTD-LPL	--	--	--	---	---	TGTCAGTGTCCCTAGGGGCACCTCACCACTCCAGCTTCTTCAGCTCTGGCCTGTCTGCTGCTGCA AGGGTTTGTCTAATCTCAATCAATGCTCTCATCTTTAGCAGCTGTGGGGTTTGTGTGTTTC TTCGTTTTTGTCTAGTATCTGACTACTTTTAAATATAAAAGAGATGTATCTAAACAAAAATAGAG ATTGTTATCAGAAGTTCACAACATTTATTAATAATTTTTCACCTG
ESTD-MCC	--	--	--	---	---	TTGTCAGGAGTGTCTGATGCTGCCTCCCAAGCTCTGTCCCTAGCCGAACCTCAGGACAACGTGCAG
ESTD- METH	--	--	--	---	---	CATCCATGTAGGAGAGCCTTAGTCAAGTGAATGCTGAGGAAGCAGTAAACAGCATGCATCCCCGAA TCTCAGGAAGTCTCTGCTTTCCAAAGGTTTGGTCTAAGTTGCTGATTACCCGGATTTTCTGACGATC TTTCAACTGCTAGAGCATCTGGTTCTCTGTTTAGCATGG
ESTD-NF1	--	--	--	---	---	ATTATCCAGATGAATTTACAAAATATACCAGATCCACAGACTGATATGGCTGGT

ESTD- NFKB1	--	--	---	---	AACATGGACTTGATATTTGTACAAAAAAGTTTATTTTCTAAAAAAGAAAAAAGAGAAA AAATTTAAAGGGTGACTTATATCCACACTGCACACTGCCTAGCCCAAAAGCTCTATTGTGGTAGG ATCAGCCCTCATTTTGTGCTTTTGTGAACCTTTTGTAGGGACGAGAAAGATCATTTGAAATTTCTGAG AAAACCTCTTTTAAACCTCACCTTTGTGGGTTTTTGGAGAAGGTTATCA
ESTD- NPPA	--	--	---	---	TGTCCCTAGGCCAGCCCTGCTTGTCTCCCTGGCTGTATCTTCAGTACTGCAAAAGAGAACACAGAC AT
ESTD- NRAMPT	--	--	---	---	GGAGGAGAGGTGGGAGGGGTCTGTCTGCTCCAGGTCCACACAGACAGAGAGGGCCCTCAGTG TATCCCAACCCCAATGTGGCGCTGGGAGATGAAGAGGAGTTGATGCAGGT
ESTD- NIRAS	--	--	---	---	GTGTTTTCTTAATCTTTCCAGGAACACAGTGACCATATTTCTTTCTGCAGGCATATAGAAATTTGGT GGGTTTTCTTTATGTAGGGTGATATTGGATACTTTTTGTGTGATTATATATAGCAATTTGAGGG ACAAACCAGATAGGCAGAAATGGGCTTGAATAGTATGCTTATTTAACCTTGGCAATAGCATTGC ATCCCTGTGGTTTTTAATAAAAT
ESTD-OTC	--	--	---	---	GTGACCTTCTCACTTTAAAAAACCTTTACCGGAGAGAAATTAATATATATGCTATGGCTATCAGCAGA TCTGAATTTAGGATAAACAGAAAGGAGGATGTATGTAACA
ESTD-PAI1	--	--	---	---	GCCACCAACCCACCCAGCACACCTCCAACCTCAGCAGACAAAGTTGTGACACAAGAGAGCC TCAGGGCACAGAGAGAGTCTGGACACGTGGGAGTGAGCGGTGATCATCGGAGCGCGCGGGCAC ATGGCAGGATGAGGGAAGACCAAGAGTCTCTGTGGGCCCAAGTCTTAGACAGACAAAAACCTAG ACAATCACGTGGCTGGCT
ESTD-PAR	--	--	---	---	CTCTTCAGGAACCAACAGCTCTCTTACCAACACAGCTTATTGCTGCCGAGAGGTACACCCGTAGA ACTTCTCCTAACTGTAAATTTAGTTAAAGGAATCGAACTGGCTCTGAAGACATGGAGATAGTGCCT AATCGACTGGCTTTCATTAGCTCTGTGAGTGTTCCTTCTTCTGCTTCTAGAACGTTTCTTAG GACTGGCAGTTAAGCTTTCACCTTAGGCTTCTGTATACCCATGCCG
ESTD- PBDA	--	--	---	---	CCTTCTCATGCCAGATGGAAATTCAGTCCCTCAGGATCTGCCCTAACCTGTGACAGTCTAAAGAGT CTGAGCCGTGGCTGGGAAGGGCAGGACTAATCCAAATCTACCCGAGCTTGTCTGCATACAGACG GACAGTGTGGGCAACATTGAAAGCCTCGTACC
ESTD-PS-1	--	--	---	---	GGGGAGTAAACCTTGGATTGGGAGATTTCATTTCTACAGTGTCTGGTTGGTAAAGCCTCAGCAACA GCCAGTGGAGACTGGAAACACCAACCATAGCCTATTCGTAGCCATATTAATGGTTGTGCCCTTACATT ATTACTCCTTGCCATTTTCAAGAAAGCATTGCCAGCTCTTCCAAATCTCCATCACCTTTGGGCTGTTTT CTACTTGGCACAGATTATCTTGTA
ESTD- PXMP1	--	--	---	---	ATGAACATGGTCTTTAATTTTATGATATGTTTATAGTATCTTAAAGGGCTCTTTTTTTTA ATGCAGAAAGAGGGGAAAAAAGAGCGAGCTGTGGTGACAAAGTGTTTTCTCAAGGCTACACAGA TTCTGAAATCATGGTCCCTAGAACATTTTGIAAGAGGTAGTCTTATGAAATTAATCTT
ESTD- Per/RDS	--	--	---	---	ACCTACAGACGTGCTGGATGGTGTGTCACACCCCGAGGAATCTGAGAGCGAGAGCGGCTGGCTG CTGGAGAAGAGCGTGGCGGAGACCTGGAAGGCCT

ESTD-RDS	--	--	--	---	---	CCCAGGAATCTGAGCGGAGAGCGGCTGGCTGCTGGAGAAAGCGTGCCTGGAGACCTGCGGAGACCTGGAAGG CCTTCTGGAGAGTGTGAAGAGCTGGCAAGGCAACAGGTGAAGCCGAGGCGGCGAGACGAGG CCAGGCCCCAGAGGCTGGCTGAGGGCCCTGGGGCCCTCCCTCCCGAACACTGAGAAATAGTGCAC CCAAGAAACGTGGATCTCCCTCATCCAACTCCGAAAGCTGAA
ESTD- RYR1	--	--	--	---	---	CTTCGTACGGGAGGTACGCTCTCCGCTCTTTCATGGACATATGGATGAGTGTGACCATTTCCC CTGCTGACAGTATGACAGCGCAGACTTGTCTACTATGAGAGGGAGCTGTGTGACATCATGCCCCG TCCCTCTGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGAGCCACCTGCGCTGGGGCCAGCCACT CCGAGTCCGGCATGTCACTACCGGGCAGTACCTAGCGCTCACCGAGG
ESTD- SPTB	--	--	--	---	---	TGAAACACCTGTGGTCCGGAGCCAGGTGTGTTTCTCTGGAGCCTGAGGAGTTTGTGTGTGTG CAGTCCCCCGCCACCTGCTGGTTGAGCCTGGACATACACCTTCACCTCTTGGCCCGGAGAGAC ATTTACCCACCTGGCCATGTCCTGGCCTGTTGTGCACACCTCTGTGAAGACCCCAACCCCTGCCTCC CCCACCCAGCCAGTTCTCTAGCAAGGGCAGGAC
ESTD- SSA1	--	--	--	---	---	TTACATTTGTGGATTGTTCTTTTGTGTGCAGCACCTTTTCAACATGATGTGATCCCATTTGTCCAAG TTTGCTTTGGCTGCTGTGCTGTGGGATATTTGAAGAGATCTTTGCCAGTCCAATGTCTAGAGAG TTTTCCCAATGTTTCTTGTAAATAGTTTCATAGTTTGAGGCCCTAGATTAAAGTCTTTAATCCATTTTG ATTTGATTTCTGTA
ESTD-TAT	--	--	--	---	---	AAATGGTCAGGACCCTGATCCACAAGAAAGTGGTACCATTTCATCAGGGCCATCAGTTTCATTCAGCTC CCATGACTGGGATGCTAAGTCAGCAACTGAGTTTCATTCATCTTAAATGACTTGTGGACAGGATCA ATTTCTCTCACTAGAACGTTTGTGTTTACAACCTTTCTCCAGTATGGATGGGATTATGATGGGGGG GAGAAAGCAAAATTTTAAATAGGACCCATGAGACACATCA
ESTD- THR	--	--	--	---	---	TGCGGCTTTCTCCGGCAGGGTAGACTTCTTACTTGGCTGTTGATTTCCAAGAGAAAGAGTCCCAAG CACACGAAACAGAAAGTTGCAGATCCCATGAGGCCAGTCTCAAAATCACACAGGATCAGTTTCATCCA CACTGGATTGGCCCAACAAGTCTGAGTGCCAGCCAGGACTCAACGGTCCCTGTAGATGGG
ESTD- TNFA	--	--	--	---	---	TTCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGGTCCCCAAAGAAATGGAGG CAATAGGTTTGGGGGCATGAGGACGGGTTTCCAGCTCCAGGTCCTACACAAATCAGTCAGTG GCCCAGAGACCCCCCTCAGAAATCGGAGCAGGAGGATGGGAGTGTGAGGGGTATCCTTGTATGCTT GTGTGTCCTCCCACTTCCAAATCCCGCCCCCGGATGG
ESTD-TYR	--	--	--	---	---	TAGTGAAGTTTTCATCTCTCTGTCAGCTTCTGGATTCTTGTCCACCGCAACAAGAGAGTCTATGC CAAGGCAGAAAGCTGGTCTTCATGGGCAAAATCAATGTCTCTCCAGATTTTCAGATCCCCCAAGCA GTGCATCCATTGACACATAATAATGATCCAGACAAAGAGGTCAATAATTTGATGTGCTGTTAAACAT GGGTGTTGATCCATTTTTCATTTGGCCATAGGTCCCTATGGGATGACA

ESTD-TYRP1	--	--	---	---	AGTAGGATGAAGCTAACCAGCCTCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AACTCCAGAATCCTAATCAGTCTGGTCTAACAAATGCCCTACTCTCTTATGCAATTAGTATCACAA AACCACCTGGTTGAATATAATAGATTGAGTTAATACTGTAATTTCTTTTACCTTTATTACCTTCTTCT AATACAAGCATATGTTAGAAATTAAGTTCTAGGCATACTT
ESTD-VB12	--	--	---	---	TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGCTGTGTTGTTTCTATTACA GGACACATGGATGCTGGAATCACCCAGAGCCCCAAGACACAAGGTACAGAGACAGGAACACCAAGTG ACTCTGAGATGTCACCAAGACTGAGAACCAACCGTTATATGTACTGGTATCGACAAGACCCCGGGGCATG GGCTGAGGCTGATCCATTACTCATAT
ESTD-VWIF	--	--	---	---	AGGTAGGAAAGCAAGAGTTGATTAGTGAAGGAGAGAATGGACCTACCTTCCACACTGTCCTTTGG TCCCTAGAGTCTG
ESTD-WT1	--	--	---	---	AAGACCTACGTGAATGTTACATGTGCTTAAAGCCTCCCTTCTCTTACTCTCTGCCTGCAGGATGTG CGACGTGTGCCTGGAGTAGCCCCGACTCTTGTACGGTCGGCATCTGAGACCAGTGAGAAACGCCCTT CATGTGTGCTTACCCAGGCTGCAA
ESTD-s14544	--	--	---	---	TTGGGAAGTTAGAGCCTATATTAATTACGGAATTACTAAGGCAGGACACAGAGGCTTAATTGA TATCCCAAAGTTGAAATGTCTCAGTTCGCTGTGGGTAGATGCAGGATTTATATGATCCGTTAACCC TCT
EST71770	--	--	---	---	AGCACCACTCTCAGTCAAGCCTCAGCACCATGCTGTCTATAAGGATGACGTGCTGTTTACAA CATCTCCTCCATGAAGAGCACAGAGAGTTATTTATCCTGAAGTCCGGATCTATGACTCAGGGACAT ATAAATGTACTGTGATTGTGAACAACAAGAGAAACCCTGTCAGAGTACCAGCTGTTGGTGGAAAGG AGTGCCCACTCCAGGGTGACACTGGACAAGAAAGAGGCCATCCAAAGG
EST52418	--	--	---	---	CAAAATTACAGGGTCAACTGCTATGATGTGTTTGGAGCCCCAGTCACCCCTTGGTGGCTACAAGATGTG GGGAGTGGCCGGGAGTTGGCGAGTACGGCTGCAGGCATACACTAAAGTGAACCTGTGAGTGTGG
EST13586	--	--	---	---	CCCACTCTATTTGCCAGCCCCAGGGACAGAGCTGATCCTTGAACCTCTTAAGTTCACATTGCCAGGA CCAGTGAGCAGCAACAGGGCCAGGGCTGGCTTATCAGCCTCCAGCCAGACCCCTGGCTGCAGACAT AAATAGGCCCTGCAAGAGCTGGCTGCTTAGAGACTGCGAGAAGGAGGTGCGTCTGCTGCTGCCCGG GTCACTC
EST51976	--	--	---	---	AGGCAGAAACTGGCCCCCATCGGGGGACGTGGAAGGCCACTTGAGCTTCTCTGGAGAAGGACCTGA GGGACAAGGTCAACTCCTCTTCAGCACCTTCAAGGAGAAAGAGAGCCAGGACAAGACTCTCTCCCT CCCTGAGCTGGAGCAACAGCAGGAACAGCAGCAGGAGCAGGACGAGGAGGAGGTCAGATGCTGGCC CCTTTGGAGAGCTGAGCTGCCCTGGTGC

EST11458 6	--	--	--	---	---	CCACTTTGGTAGTCCAGTGTGACTCATCCACAATGATTTCTCCAGTGCATCTTGTCTCGAGTTTT CTCTGCCATGTTGCTATTGCAGGACGGACCTGTCCCAAGCCAGATGATTTACCATTTTCCACAGTGGT CCCATTAANAACATTCTATGAGCCAGGAGAAGATTACGTATTCCTGCAAGCCGGCTATGTGTCC CGAGGAGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC
EST39852 8	--	--	--	---	---	CGGTCTTCTCCAGGTATTGTTGCAGAAAGCCGAGATGACCTCTATGTCAGATGCATTCCTAAG GCATTTCTTGAGGTGAGTACACCTTCCCACTCTTACGGTACAGAAAGGAGATGCATGAACAGGA GGAACACGTGGAAAAGGCCTGTTTCCAGTGTAAAGGCATGCAAAAGGCCCTCCACAGGCTGCTATAAT ACAGCCCT
EST62448 0	--	--	--	---	---	ACCTGGTGTGCTGGTGTGGGTGAACCTGGTCTCTTGCCATTGCGGCTCTCTGGGCCCCGTGG TCCTCTGGTGTGCTGGGTAGTCTCGAGTCAACGGTGTCTCTAGTGAAGCTGGTGTGATGGCAACC CTGGGAACGATGGTCCCCCAGGTGCGGATGGTCAACCCGGACACAAGGGAGAGCGCGGTTACCCCTGG CAATAT
EST36027 2	--	--	--	---	---	AGTGACTTCCAAGGAAATGGCTACCCAACTTGCCTTCATGCGCTGTGCGCAACTATGCCTCTCAGA ACATCACTACCACCTGCAAGAACAGCATTGCATACATGATGAGGAGACTGGAACCTGAAAAAGG CTGTCACTTACAGGGCTCTAATGATGTTGAACCTGTTGCTGAGGGCAACAGCAGGTTCACTTACACT GTTCTTAGATGGCTGCTCTAAAAGACAAATGAATGGGAAAGACAA
EST12274 0	--	--	--	---	---	CCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTTGCTTCCAATAGAGCCTTACCAAAAGTGTAT TACATAAAGAAGTCAAGTGGTTTACTCTCATGACCAAAATATCTTCCCTCCTTAGGATGAGGTGA TAGTAAATGACCGATGGGTGAGAACTGTTCTGTCAACCATGGAGGATACTATAACTGTGAAGATAA ATTCAAGCCACAGAGCTTGCCAGATC
EST76807 7	--	--	--	---	---	ATGCTAAGGGGATCGGACATGAAAGGACCCCTGTGAGCCGATTGTCTATCTCCAGCGGCCCTGTCTATC CAGTCACTCATCAATGGGGCCAGTCAGGCCAGGCACTGGGCTCGGAGGACTCACCACCTGCCCCCT GCTGCCATGTGGACTGGTGCAAGTTGAGGACTTCTTG
EST44438 7	--	--	--	---	---	GCAGCCAGGAGCCGCTGCACCATGCCCGCATAGATGCGGACCTCAAGCTCGACTTCAAGGACGTCCT GCTCCGACCTAAGCGGAGCAGCCTCAAGAGCCGAGCGAGGTGGG
EST12839 3	--	--	--	---	---	TGCAAAACACACAAAAATCTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCTCTTTGCT CCTAACATCTATGTACTGGATTATCTAAATGAACACAGCAGCTTACTCCAGAGATCAAGTCCAAAGG CCATTGGCTATCTCAACACTGGTGAGTGAATCTTGAAGTAAAGGAAACTTGAATGTTTATCAACTGG ATTTCCAGTAGGTTTCAGTTACTTATGAATATATGATACCTTAGCTTAG
EST54419 8	--	--	--	---	---	CTTCTGCCATAATTGAATGATATTGTTGCTGTGGGACCTGAGCACTTTTATGGCACAAATGATCACTA TTTTCTTGACCCCTACTTACAATCCTGGGAGATGATTTGGGTTAGCGTGGTGTGTTGTTGCTACTA TAGTCCAAGTGAA

EST10398 2	--	--	---	---	---	TGCCTGGGTGGCAAGGCTGCAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGCCATGGTA AGATGCTGCCACCTTTATCTACTTGATGATGTTACATTTGGGCTTGACTTTCCAACACGGAGAAG CATTGTTTCTTCGGGCCAAGAAGGTATCTACCAATAGTGCTATTAGGCATTTG
EST36751 7	--	--	---	---	---	CCAAAGTCGTTCAATTTAGCTTTGCAGGTTTAACTCGATTACTTTTCTATTCAAATCTCTGTAAAA TTGAAATATGAACCTAGTTTCTGATCTATGGTTTCAAGTTAAACAG
EST40562	--	--	---	---	---	CACGTGAAAGGAGCTATTTTGGAGGCTTTAAGAGTAAAGAACTGTCCCCAAACTTTGTGGCTGAC TTTATGGCTAAGAAAGTTTCACTGGATGCATTAATAACAAATATTTACCTTTTGAAGAAATAATG AAGGATTTGACCTGCTTCGCTCTGGAAGAGTATCCGTACCGTCTGACGTTTGAACAATACAGAT GCCTTCCCTTGAGCAGTTTTCAGCCTCCTCTACCCCTA
EST18288 3	--	--	---	---	---	GCTCTATACCCCTGTGGTCTCCACGCTCTCTGGACTTCACAGAACTGGATGTTGCTGTGAGAA GATTGACAGGTTTCATGCAGGCTGTGACAGGATGGAAGACTGGCTGCTCCCTGACGGGAGCCAGTGTGG ACAGCACCTGGCTTCAACACCTACGTCCACTTCCAAGTAAGGCAACCTCTCTGCTGGCTCTGGC CCTAGGACTTAGTATCC
EST70523 3	--	--	---	---	---	TTCCCGCCAGCCCCCATCTTGGCACCTTGGTCCCTCAGGGGCCACCCCGGCACTACCGCTCT CGCTCTGGTAACATCCGGCGGCGCGCTCTTGAGACATAGCCTGGACCTTCCGTATAGGAGG ACCGTGTAGGCTTCCGTCCCGGGCTTCCAGGGGCCAGCCCTGCAGAGAGGGGTCCCTGTGCT TGAGCTGAACACAGCTGTGGAGTGTCTCCACGTTG
EST58707 7	--	--	---	---	---	CAGTGTATCTGGAAGCCTACAGGACACCAAAAATAACCTTAATCATCAATTGGTTACAGGAGCTTT AAGTTACAGCATCTTTGGCTCACATGAAGGCCAAATCCGAGAGACCTAGAAGATACACGAGACCGA ATGTATCAATGGACATTACGACGAACTTCAACGATACCTGTCTCTGGTAGGCCAGGTTTATAGCA CACTGTACCTACATTTCTGATTGGTGGACTCTTGTCTAAGAACCTT
EST74167 6	--	--	---	---	---	AGACCATGAAGGAGTTGAAGGCTACAAATCGAACTGGAGGAACAACTGACCCCGGTGGCGGAGG AGACCGGGCACGGCTGTCCAAGAGCTGCAGGGCGCAGGCCGGCTGGCGCGGACATGGAGGA CGTGCAGCGCCGCTGGTGCAGTACCGCGCGAGGTGCAGGCCATGCTCGGCCAGACCGAGGAGC TGCGGGTGGCCTCGCTCCACCTCCGCAAGCTGGCTAAGCGGCTCCTC
EST43211 8	--	--	---	---	---	CGCCTGGTGAGTACCGCGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGGGGTGCG CCTCGCTCCCACTGCGCAAGCTGCGTAAGCGGCTCTCCGCGATGCCGATGACCTGCAGAAAGCGC TGCGAGTACAGGCGGGCGCGAGGGCGCGGAGGCCCTCAGCGCATCCGCGAGCGCGCTG GGGCCCTGTGGAACAGGGCGCGCTGCGGGCGCGCACTGTGGCTC
EST36770 4	--	--	---	---	---	TGTAGCCAAAGTCACCTGCATCATCTTTGGCTGCTGGCAGGCTTGGCCAGTTTGGCAGCTATAATCC ATCGAAATGATTTTTCATTGAGAACACCAATATTACAGTTTGTGCTTCCATTATGAGTCCCAAAAT TCAACCTCCCGATAGGCTGGGCTGACCAAAAATATACTGGTTTCTGTTTCTTTCTGATCAT TCTTACAAAGTTATCTCTTATTGGAAGGCCCTAAAGAAGGCTTATG

EST26021 1	--	--	--	---	---	TAATGTAAGCTCATCCACCAAGAAGCCTGCACCATGTTTTGAGGTTGAGTGACATGTTGCGAAACCTGT CCATAAAGTAATTTGTGAAGAAGGAGAGCAAGATTCCTCTGCAGCACCCTCACTACCAATGA GCATTAGCTACTTTTTCAGAAATTGAAGGAGAGAAAATGCATTATGTGACTGAACCGACTTTTCTAAAGC TCTGAACAAAAGCTTTCTTCCCTTTTGCAACAAGACAAAGCAAAAGCC
EST51212 0	--	--	--	---	---	ATCCTGAGCTCGCCAATAAGCTTCTTGGTCTACTTCTCTCTCCACAAGCCCCCAATTCACATTTCTCA GAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCCACTCAATACAAAAGGCCCTCTCT ACAICT
EST20118 2	--	--	--	---	---	GTCCGAATCCTCCTCCTGAAAGTGGCCGGGTTAATCTGCTCATGACGCTGGGCTGTGGTCCAGCT GAGGTGAGGGGCTTGAAGCTGGGAGTGGGTTAGGGACGGGCTCTCTGGTGCACTCCTAAGCTCT GAGAGCAACCTCCCTTGAAGCTGGGAGTGGGTTTAGGGACGGGGTCTCTGCGTGCACTCCTAAGCT CTGAGA
EST53018 6	--	--	--	---	---	ACAATCCAGGTACACATCCAGAAGAGGAGGGGTGGTCACTGAGCCTGGGTAGGTCCAGTAATCCA AGGATTCAGGAAGGAGGCCACGAGGATCGAAGTAGTGAAGTC
EST68787 5	--	--	--	---	---	CTTCCTATGGGATTTGACTTTATTTTCTCCATTGCTTACCTTTACAGGTGTTAATATAGTGAAAAG GAAGCTTGAGCTCATGACAAATTTGAAGCTGACAAATTACACAAGAGGAAATAAATTCACAGTCAA AGAATCAAGCACCTTTTCGAACATTTGAAGTTGTTTTGAACCTGGTGTCACCTTTAATTACAACCTAG CAGACGGAAGTGAAGTCAAGGTAAGAAT
EST34088 2	--	--	--	---	---	GTGGGGCAACAGTGGGAGAGAGGGGCCAGGGTATAAAGGGGCCACAAGAGACCGGCTCAAGG ATCCCAAGGCCCAACTCCCGGAACCACTCAGGGTCTCTGTGGACAGCTCACCTAGCTGCAATGGCTACA GGTAAG
EST37382 5	--	--	--	---	---	CTGAGAAACAATTGGCAAAATAAAGGAATTTGGCACTCCCAACCCCTCTTCTCTTCTCCCTTGGGA CTTTGAGTCAAAATGGCCTGGACTTGAGTCCCTGAACCAAGCAAGAGAAAAGAGGACCCCAAGAAAT CACAGTGGGCACGTCCGCTACCGCCATCTCCCTCTCACGGGAATTTTCAGGGTAAACT
EST74082	--	--	--	---	---	TCCAGGGTGGCTGGACCCCAAGGCCACGCTCTGCAGCAGGAGGACGTGGGCTCGTGAAGCATG TGGGGTGAGCCAGGGGCCCCAAGGAGGCACTGGCTTCAGGCTGCCTCAGCCCTGCTGTGCAC CCAGTCACTGTCTCTGCAATGGCCCTGTGGATGGCGCTCCTGCCCCCTGCTGGCGCTGCTGGCCCTC TGGGACCTGACCCAGCCGAGCCTTTGTGAACCAACACCTGTGCG
EST45311 0	--	--	--	---	---	GCCCTCCTCTCTTCCAAATTCGTCCCTATAGTTTCTCTATTAAGTGAACATGACATTCCTTTTAGT GGATAGATGCACACAAACACAAAGCCATTATGGGAAGGATCCACGTGTGTGGCCATATTTGAACA CATTTTCTGCAATCACCTCTTTTCATTTAACAGCCCTATTCAATGGCCCTTTTCTTTTTCAGTAGTA CATACACATCTGTGTCAATTTGTGAAT

EST65258 8	--	--	---	---	---	TGCCCCATCAGCGGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTACCAATTAACCAAAAT CCAGTTATTTCCACCCTCAAATGACAGCCATGGCCGGGGTCTTCTGGGGCTCGTCGGGGGG ACAGCTCCACTCTGACTGGCACAGCTTTGCATGGAGACTTGAGGAGGGGCTTGAGGTTGGTGAG GTTAGGTGCGTGTTCTGTGCAAGTCAGGACATCAGTCTGATTAAA
EST38216 3	--	--	---	---	---	ATGCAGGATGAAGGTGGACAGGGAGGAGAGGGCCAAACCTGTCTATCCAGGGCCTGCAGATGTCGCTG GACTATGGGTTTGTGACCCCACTGACCTCCATGAGCATCAGGG
EST62782	--	--	---	---	---	ATACTAGTACAAGTGGTAATTTTGTACATTACACTAAATATTAGCATTTGTTTAGCATTACCTAA TTTTTTCTGCTCCATGCAGACTGTAGCTTTTACCTTAATGCTTATTTAAAATGACAGTGAAG TTTTTTTTCTCGAAGTCCAGTATCCAGAGTTTGGTTTTTGAACCTAGCAATGCCTGTGAAAAA GAACTGAATACCTAAGATTCTGCTTGGGGTTTTTGGTGCATGCA
EST35879 9	--	--	---	---	---	GAGATCGGTGTGTGAGTTATTAGGCATGGTTACCTGTGATTCCTCCAAATCTTGCGGTTCCACCGATG GAACTGCCGGCAAATCCTGACACGTGTGACCCAGGCTGTACCCAATTAGGTGAACATGGCTTCGAG AGAGTTGAACAGATTCTCGAAGACAGCAGCGGGATGGGGCAGGAGAGCTGCCTGGATGAA
EST68308 5	--	--	---	---	---	GGAAAGAGATTTAAGAAGCTTGATTGGACAATTCGTGTTCTTGAGTGTGGAAGAGTTCATGCTCT GCCTGAGTTACAACAGAAATCCTTTAGTACAGCGAGTAATAGATATATTCGACACAGATGGGAATGGA GAAGTAGACTTTAAAGGTAAGAAAGTAGTATTTTTTA
EST54045 6	--	--	---	---	---	GGAATATTAAAAATATTTTAAATACCTCCATTTGCTTATCCTTTTAGTGAAGATGATACCTGCAA AAGACATGGCTAAAGTTATGATGTGATGTTGGCAATTTGTTTCTTACAAAATCGGATGGGAAATCT GTTAAGTAAGTACTGTTTGGCTTGGAAATGGATTTTAAATGTTGACTTTATCAT
EST52908 0	--	--	---	---	---	ATCACAGGTCTCTGGTCTCTGGCCATCATTTCTGGGAGAGATGGTGGTCTGCAAGCCCTTTGG CAATGTGAGATTTGATG
EST19590	--	--	---	---	---	AGGAGAAGCTGAGGAGGGGAAGAGAGACAAGAATGACATTGATGAGTGAAGATGTGCGGCTCAGGAT GCCGGAAAATGAC
EST76136	--	--	---	---	---	TGAAGCTTCTGCCAGCTTGCAATTTGTTTCTAGGAGAACCCGGCTCATACCTTTATCTATAGCCTTCCCC TAGGTCCTT
EST58607 0	--	--	---	---	---	CTCTGGATGGGTTACAGGTGGCAGGCACAAAGCCAGTCCATCCTGTAGTCATCATAGTTGTTGGCTCC CAAGTTGCTCTCCTCACTGGAGAACAGGACAGCCACATGGCGGGATGGCCGGGGAGTTCGTT TGCGGCCACGGCTGTGGCTCTGTTGTGAACGGTAGCCTTTGCGGTTGCGATGCGCTAAACCTTTGTTCT TGGCCAAGGAGGGGGGTGCCATGCCTGAGATGTAGATGCGGGC
Legend: 1=Marker 2=PM Position 3=Reference Allele 4=Altered Allele 5=SNP Forward Primer 6=SNP Reverse Primer 7=Sequence						



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## EQUIVALENTS

While this invention has been particularly shown and described with references to preferred embodiments thereof, it will be understood by those skilled in the art that

5 various changes in form and details may be made therein without departing from the spirit and scope of the invention as defined by the appended claims. Those skilled in the art will recognize or be able to ascertain using no more than routine experimentation, many equivalents to the

10 specific embodiments of the invention described specifically herein. Such equivalents are intended to be encompassed in the scope of the claims.

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## CLAIMS

WE CLAIM:

1. A nucleic acid segment shown in column 7 of the Table,  
or a portion thereof which includes a polymorphic site,  
5 or the complement of the segment or portion thereof.
2. The nucleic acid segment of claim 1 that is DNA.
3. The nucleic acid segment of claim 1 that is RNA.
4. The segment of claim 1 that is less than 100 bases.
5. The segment of claim 1 that is less than 50 bases.
- 10 6. The segment of claim 1 that is less than 20 bases.
7. The segment of claim 1, wherein the polymorphic site is  
biallelic.
8. The segment of claim 1, wherein the polymorphic form  
occupying the polymorphic site is the reference base  
15 for the fragment listed in the Table, column 3.
9. The segment of claim 1, wherein the polymorphic form  
occupying the polymorphic site is an alternative form  
for the fragment listed in the Table, column 4.
10. An allele-specific oligonucleotide that hybridizes to a  
20 segment of a fragment shown in the Table, column 7 or  
its complement.
11. The allele-specific oligonucleotide of claim 10 that is  
a probe.

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12. The allele-specific oligonucleotide of claim 10,  
wherein a central position of the probe aligns with the  
polymorphic site of the fragment.
13. The allele-specific oligonucleotide of claim 10 that is  
5 a primer.
14. The allele-specific oligonucleotide of claim 13,  
wherein the 3' end of the primer aligns with the  
polymorphic site of the fragment.
15. The allele-specific oligonucleotide of Claim 10, which  
10 is selected from the group consisting of the nucleotide  
sequences of the Table, column 5.
16. The allele-specific oligonucleotide of Claim 10, which  
is selected from the group consisting of the nucleotide  
sequences of the Table, column 6.
- 15 17. An isolated nucleic acid comprising a sequence of the  
Table, column 7 or the complement thereof, wherein the  
polymorphic site within the sequence or complement is  
occupied by a base other than the reference base shown  
in the Table, column 3.
- 20 18. A method of analyzing a nucleic acid, comprising  
obtaining the nucleic acid from an individual; and  
determining a base occupying any one of the polymorphic  
sites shown in the Table.
- 25 19. The method of claim 18, wherein the determining  
comprises determining a set of bases occupying a set of  
the polymorphic sites shown in the Table.

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20. The method of claim 18, wherein the nucleic acid is  
obtained from a plurality of individuals, and a base  
occupying one of the polymorphic positions is  
determined in each of the individuals, and the method  
5 further comprising testing each individual for the  
presence of a disease phenotype, and correlating the  
presence of the disease phenotype with the base.